

# CaseManager™ DX Software 3.0.0 User's Guide v01



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# **Character Types and Symbols**

Example	Words or characters that appear on the screen. These include field names, screen titles, push-buttons and menu names, functions or options. Keys on the keyboard. For example, function keys (such as <b>F11</b> ) or the <b>Ctrl+O</b> key combination.
Example	Cross-references to other documents or chapters within this document.
Warning!	Indicates that you need an additional module to use the feature or that there are prerequisites for the task.
Important!	Contains an important piece of information or a recommendation. The application will work if you choose not to follow the recommendation but its performance might be less than optimal.
(!) Tip!	Contains a suggestion about using the application in some other way or to some interesting purpose.
NOTE:	A brief explanation or an extra piece of information.

# 1 About this Product

## 1.1 Intended use

The CaseManager<sup>™</sup> DX Software application, developed by 3DHISTECH, is an in vitro diagnostic (IVD) medical device designed to exchange, identify, store and manage electronic health records, to receive, identify and manage digital images of surgical pathology and cytology slides – digital sections primarily obtained from formalin-fixed paraffin-embedded (FFPE) tissue specimens and cytology samples (vaginal smears) – produced by 3DHISTECH's PANNORAMIC<sup>®</sup> Diagnostic Scanner Software with one of the four Whole Slide Imaging (WSI) scanners (PANNORAMIC<sup>®</sup> 1000 DX Digital Scanner; PANNORAMIC<sup>®</sup> 480 DX Digital Scanner; PANNORAMIC<sup>®</sup> 250 Flash III DX Digital Scanner; PANNORAMIC<sup>®</sup> Flash DESK DX Digital Scanner) – and store those in the SlideStorageDX<sup>™</sup> module.

It links electronic health records and medical images to cases for pathologists in a centralized database. It is intended for use by healthcare professionals (e.g.: qualified pathologists) in clinical laboratory and hospital settings on all individuals without population restrictions. The software provides tools for pathologists to manage the cases, view, interpret and analyze the linked electronic health records and the medical images in the ClinicalViewer<sup>™</sup> module, and to write reports, while ensuring that only the relevant electronic health records and digital images can be accessed and utilized for diagnostic purposes.

Pathologists using the CaseManager<sup>™</sup> DX Software and its modules are responsible for following appropriate procedures and safeguards to ensure the validity of image interpretation. While the software assists in the diagnostic process in conjunction with other clinical and laboratory information, it should not be used as a substitution for the professional judgment of a qualified pathologist.

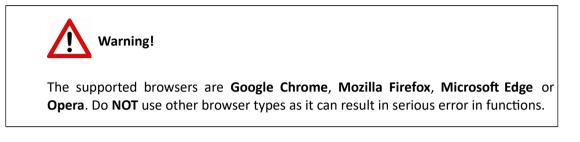
## 1.2 Vigilance

Report immediately or as soon as possible any vigilance and vigilance suspect cases, serious incidents, any unexpected event, or accident which may endanger the life of the user of the device, or which may lead or could have led to a serious deterioration in the user's health to local distributor and 3DHISTECH Service Support:

support@3dhistech.com

## 2 Connecting to CaseManager<sup>™</sup> DX Software

1. Type the URL of the CaseManager<sup>™</sup> DX Software (the local System Administrator can assist you with the proper address) in your web browser to access CaseManager<sup>™</sup> DX Software.



2. Enter your **Username** and **Password**, then click **Login** to access the CaseManager<sup>™</sup> DX Software page.

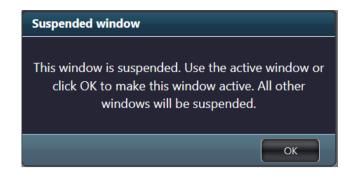


Figure 1 – CaseManager™ DX Software login

After 3 unsuccessful login attempts, the user cannot login for 2 minutes. The login interface displays the number of slots available for logging in. If there is not any free slots, the user cannot log in until a slot is released.

If you have logged in successfully, after 30 minutes of inactivity, the system will log you out automatically.

If you log into CaseManager<sup>™</sup> DX Software multiple times, the inactive CaseManager window/page/tab is suspended and the below message is displayed.



If you are logged into CaseManager and you open it again on a new tab in the same supported browser, the same session is automatically displayed.

## 3 CaseManager<sup>™</sup> DX Software User Interface

The CaseManager<sup>™</sup> DX Software user interface can be divided into 4 sections.

**Section 1**: Toolbar which includes the following functions: change between case lists, messages, contacts; search bar for cases; button for case registration; button for listing cases of the user logged in; name of the current user; button for user configuration; button to sign out. See <u>chapter 3.1</u> <u>CaseManager<sup>TM</sup> DX Software toolbar</u> for more information.

**Section 2**: Summarizes the general case folders, user folders and filters. See <u>chapter 3.2</u> <u>CaseManager™ DX Software folder panel</u> for more information.

Section 3: Summarizes the case list. See <u>chapter 3.3 Case list</u> for more information.

Section 4: Includes details of the selected case. See <u>chapter 3.4 Case details</u> for more information.

Case I	ist				Default 🗸			Unreleased version		C
	2-BIOP-1	Kiro Praktór			es -	Registration da				
es (5091)		25/06/1962	SSN: 123456789	SCAN		Case code		2022-BIC	OP-1	
roup's cases		Kiro Praktór			9	Original barcode				
202	2-BIOP-11					Date of registration				
REPORT						Registration user		SysAdmir		
ies (133)		Kiro Praktór			6	Registration place		Biopsy Ial		
w (0) 202	2-BIOP-38		SSN: 123456789		-	Clinical history		Clinical hi	istory az is Clinical hist	ory az is Clini
rogress (128)				SCAN		Number of containe				
202	2-BIOP-101				°s	Number of blocks				
iaing (5)						Number of sections				
shed (0)				SCAN	8	Sender institute		Test Send	ler 1	
ent (8) 202	2-BIOP-133				6°	Sender institute cod				
						Sender doctor		Dr. Who		
		Kiro Praktór			€ <sub>0</sub>	Sender address				
ted slide cases (3) 202	2-BIOP-149				*	Sender phone numb	er	+361123		
ded (16) REPORT						Assigned to		SysAdmi	n	_
ires 202	2-BIOP-153	Kiro Praktór			S	Patient's inform	nation			
202	2-BIOP-153					Patient's name		Kiro Prak	tór	
ned (0)				SCAN		Insurance number		12345678	39	
ign (0) 202	2-BIOP-157			L 19	6	Patient's date of birt				
						Patient's birth name		Változik		
REPORT				SCAN	<u></u>	Patient's gender		Female		
202	2-BIOP-258			. 9	5	Other cases				
REPORT		25/06/1962								
		Kiro Praktór			9	2022-BIOP-7				
202	2-BIOP-259	25/06/1962	SSN: 123456789	. 1		2022-BIOP-2	2022-BIOP-10	2022-BIOP-15	2022-BIOP-24	2022-BIO
REPORT		1502		SCAN		2022-BIOP-53	2022-BIOP-96	2022-BIOP-129	2022-BIOP-130	2022-BIOI
202	2-BIOP-262				S	2022-DIOP-53	2022-610P-96			2022-0101
202		25/06/1962				2022-BIOP-134				

The structure of user interface design is shown by Figure 4.

Figure 2 – User interface of CaseManager™ DX Software

**NOTE**: Required input fields are marked with red '\*' characters throughout CaseManager<sup>™</sup> DX Software.

## 3.1 CaseManager<sup>™</sup> DX Software toolbar

### 3.1.1 3DHISTECH website

By clicking the CaseManager butt

button, the user can directly navigate to the 3DHISTECH

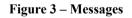
### 3.1.2 Case list

By clicking the *button*, the system displays the **Case list** panel containing the folder structure, the case list of the selected folder, and details of the selected case. For more information on case list, see <u>chapter 3.3 Case list</u>.

### 3.1.3 Messages

Click Click

2	3DHISTECH CaseManager				B 🚣		Test Doctor	<b>\$</b>
	New message	•	•	Reply 🗰 Reply all 🗰 F	orward 👕 Delete	Inbox	Search	۹.
<u>e</u> 1	nbox (3) *		*	* Laboratory Supervisor	10/26/2020 12:58:55 PM	Important Cases - Dear All, Let me show you our most important cases. 2020-BIOP-1 2020-H	EM-12 2020-HEM-18 Please hel	p me the proper dia
/🔤 s	Sent		*			Consultation invitation - Lorem ipsum Lorem ipsum Lorem ipsumLorem ipsumLorem ipsum Lorem		1
⊵ s	iystem mess		*	* Laboratory Supervisor	10/26/2020 12:54:51 PM	2020-BIOP-2332 - Lorem ipsum Lorem ipsum Lorem ipsumLorem ipsum Lorem ipsum		
	mportant		*	* Laboratory Supervisor	10/26/2020 12:53:17 PM	Lorem Ipsum - Lorem Ipsum Lorem ipsum Lorem ipsumLorem ipsumLorem ipsumLorem ipsur	nLorem ipsum Lorem ipsum Lor	em ipsumLorem ips
<u>/</u> , , , , , , , , , , , , , , , , , ,	Archive New folder							



The message icon will change to 😐 in case the user has received a new message or messages.

The text font style of new messages/unread messages are listed in **bold-italic** and the sender user name is extended with a '\*' character. Unread messages are also indicated with a '\*' character next to the folder (as shown in **Figure 5**).

You can send new message to other users or workgroups after clicking the **New message** button:

Choose the recipient (user 4 or workgroup 4) from the Recipients drop-down list or click To All Users to send message to all of the users registered in the system. Required fields when sending a message are: Recipients, Subject (maximum 150 characters) and the Text body fields of the new message window. Click OK to send your message.

New message	×
Recipients* To	
Subject*	
	OK Cancel

Figure 4 –New message

Mark messages as important by clicking . In such case, the message is automatically copied to the **Important** general message folder. Open message by double-clicking it, so the content of the message will be loaded into the message list location.



#### Figure 5 –Loaded message

The window of the loaded message includes the name of the sender, the subject below that, the date of sending on the right side of the window, the list of recipients, and the text body of the message.

- Answer to the received message by clicking **Reply** or **Reply all**, and forward messages with the **Forward** button. You can delete the selected message(s) by clicking **Delete**. Upon deletion, a message will be archived and the deleted message is automatically moved to the **Archive** general folder.
- Create unique message folders after clicking . A unique, user-created folder can be deleted by clicking after selection. If no folder has been selected, this button remains inactive.
- Multi-select messages on a list by clicking the checkboxes. Messages can be moved to any of the user-created message folder with the drag-and-drop mouse gesture. You can search for messages in the selected folder based on the name of the sender, subject, and text. Type your search criteria into the search input field. The search results are displayed in the bottom right corner of the screen. Filter conditions are not deleted automatically – click I next to the search box to delete search criteria.

## 3.1.4 🖪 Contacts

Important! Before creating contacts, it is important to create or define the contact group. Contacts without a related contact group cannot be created.

Contact groups can be created by clicking ullet, and deleted by  $\fbox{llet}$  after selection.



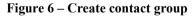




Figure 7 – Delete contact group

The maximum length of the character string is only 24 when entering the name of the contact group.

The contact group can only be deleted if selected – the  $\square$  icon is inactive if no contact group is selected. The name of created contact group can be edited after double-clicking its field. If you select a contact group, the system automatically lists all the contacts in the contact group in a card. The contact card contains the information of each of the contacts (for example: Department, Workplace, Phone number, etc.).

Test Doctor	
Department: Pathology	
Workplace: Test Hospital	
Phone number: 6125255	
E-mail: testdoctor@testhospital.com	
Contact Group: Pathology	
	<b>†</b>

Figure 8 – Contact card

Click  $\bowtie$  to send email to the selected contact, and click  $\bowtie$  to edit the contact. To delete the contact, click  $\square$ .

Click E to open **Contacts**. A **Contact** is a person created in CaseManager<sup>™</sup> DX Software without any permission for performing tasks in CaseManager<sup>™</sup> DX Software. In case more contacts within the same institution are saved, they are all visible for all the users of the system.

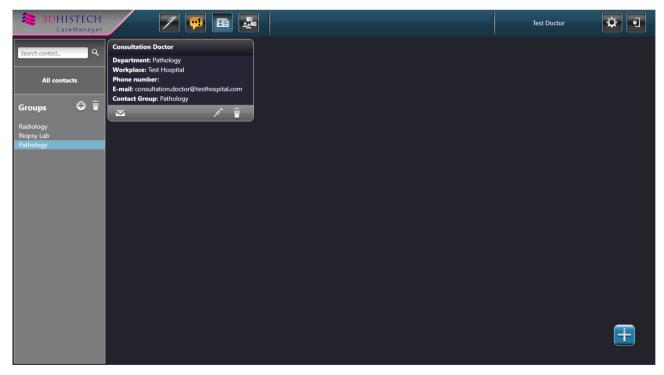


Figure 9 – Contacts

Important!

You are allowed to create 1, edit  $\swarrow$  or delete 1 a contact. A contact can be created only if there is at least one contact group to which the user can assign the contact. If a new contact is created, the **Name, Contact Group** and **E-mail** address input fields are required to be filled out.

Contacts with identical E-mail addresses cannot be created.

Create contact	Edit contact X
Name*	Name*
Test User	Test Doctor
Workplace Department	Workplace Department
Test Hospital Pathology	Test Hospital Pathology
Contact Group*	Contact Group
Pathology 🗸	Pathology 🗸
Country City	Country City
Hungary Budapest	Hungary Budapest
Zip code Address	Zip code Address
1141         Öv Street 3.	1141         Öv Street 3.
E-mail* Phone number	E-mail* Phone number
testuser@testhospital.com	testdoctor@testhospital.com 6125255
Note	Note
OK Cancel	OK Cancel

Figure 10 and 11 – Create and Edit contact

After modifying a contact, you receive a warning message from the system:

Warning	×
Do you really want to edit the contact?	
Yes No	

Figure 12 – Edit contact warning message

If you want to save the modification, click **Yes**, otherwise click **No**.

Search for contacts in all contact groups by entering fragment of text in the search input field. Type at least 3 characters to initiate search.



Figure 13 – Search input field

### 3.1.5 Teleconsultation

To access teleconsultation and display its main screen, click the 🛤 button.

For more information on teleconsultation, see *<u>chapter 5 Teleconsultation</u>*.

#### **3.1.6** Search bar for cases



Figure 14 – Search bar for cases

By entering an ID or keyword in the search input field and by clicking  $\square$ , you can search in the following categories within the selected folder:

**NOTE**: For a successful search of **Case barcode**, **Sample original barcode** and **Social Security Number (SSN)**, exact values must be specified. If there is no hit, the following message appears in the case list: '*No items to show in this folder!*'

- Case code is a code for identifying the case. This code can be either a code as an identifier used and sent by LIS or added to CaseManager™ DX Software, generated by the institute.
- **Case barcode**: If case code is stored in barcode, the software automatically searches for the case in the database based on the recorded barcode string (that is visible in the text box).
- **Sample original barcode**: Case identifier used in other systems, search is performed based on barcode stored in Hospital Information and Laboratory Information Systems.
- **Patient's name or SSN**: Search for cases stored in the database that can be identified by the patient's name or SSN.

The above categories can be selected from a drop-down list.

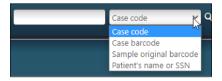


Figure 15 – Search field, drop down list, search button

**NOTE:** After searching the entered criteria remains active, so when clicking on another folder, the search for the entered string in the selected folder is performed again.

To delete search criteria, click  $\mathbb{Z}$  at the right of the search bar.

#### **3.1.7** Registering a new case

Click to open the **Case registration** window. You can register a new case after filling all the required data in this window.

Case registration X
Original barcode
332233112336
Patient's data*
test Q Patient search
Test Patient 9/12/1928
Registration place* Date of arrival
Biopsy lab V 2020/10/26 13:38
Sender institute* Sender institute code
Test Sender 1 V TS1
Sender doctor
Test Doctor
Case code
Biopsy 💙 🤨 Automatic counter
Year     Type     Counter       2020     BIOP     113     Image: Counter fields
Registration

Figure 16 – Case registration

• Type the barcode into the **Original barcode** field (maximum 160 characters). Select **Urgent** to mark case as urgent for the assignee. You cannot enter a barcode string that already exist in the database of the system.

• Fill in **Patient's data**. Click • Fill in **Patient's data**. Click • Patient search window includes fields for filtering name, insurance number, or year of birth of the patient you are looking for. Click • Cli

Name	Insurance number	Date of birth	Birth name	Mother's name	Personal ID	Place of birth	E-mail	Note
est Patient 0	009391578	3/1/1986	Test	Test Mothername 0	010484124	Test Place of birth 0		
est Patient 1	008647367	3/1/1986		Test Mothername 1	007311010	Test Place of birth 1		Red nose. Blue mouth. Cold body.
est Patient 2	001924703	3/1/1986		Test Mothername 2	064470863	Test Place of birth 2		
est Patient 3	004293040	3/1/1986		Test Mothername 3	016805456	Test Place of birth 3		
est Patient 4	003648536	3/1/1986		Test Mothername 4	003935226	Test Place of birth 4		
est Patient 5	000096054	3/1/1986		Test	079567187	Test Place of		

Figure 17 – Patient search

If you want to search based on the patient's year of birth, more results may be listed. The
results are displayed in a table containing a maximum of 100 records. If the number of results
is more than 100, click Next to load the rest of the results. If you found the proper record,
double-click it to register the patient for the case.

Patient data can be edited in this window if needed after clicking Lot patient data. Click OK when modifications are performed, or Cancel to leave window without saving.

Edit patient data	
001924703	No Insurance number
p01924705	No insurance number
Name*	
Test Patient 2	
Gender*	Date of birth*
Female Y	3/1/1986
Birth name	Mother's name
	Test Mothername 2
Personal ID	Place of birth
064470863	Test Place of birth 2
Country	City
Test Country 2	Test City 2
· · · ·	
Zip code Address	
Test Zipcod Test City Test	Street 2.
Phone number	E-mail
	,
Note	
(	
	OK Cancel

Figure 18 – Edit patient data

Type the patient's insurance number into the **Insurance number** input field and if this number already exists, the software automatically fills out patient's data that have been registered to this insurance number. If a patient has no insurance number, patient search must be used to find a specific patient. To load patient's data into the case registration window, double-click on found patient data.

If the insurance number was not registered yet, the create patient window is automatically opened.

If you want to create a new patient record other than by typing in insurance number of the patient, is that you click freete patient to register a patient in the create patient window. Fill in all the required fields such as Insurance number, Name, Gender, Date of birth. Note that Zip code can be 30, Country and City can be 60 characters maximum. Click OK when finished. Click Cancel to exit from window without saving.

**NOTE:** If the patient does not have an Insurance number, click select **No Insurance number** option.

- Select Registration place from the drop-down list and set Date of arrival. These values will only clear if the case registration window is closed. Select Sender institute from the drop-down list.
   Sender institute code input field is filled in automatically.
- This method works in the other way around, so when filling in the Sender institute code the appropriate Sender institute is selected from the list automatically. You can also specify the name of the Sender doctor.

Create patient	×
Insurance number*	
Test insurance number	📃 💋 📃 No Insurance number
Name*	
Test Patient	
Gender* Male	Date of birth*
Birth name	Mother's name
Personal ID	Place of birth
Country	City
Zip code Address	
Phone number	E-mail
Note	
	OK Cancel

Figure 19 – Create patient

Click Rew sender to record a new sender entry. Fill in all the sender data (required fields are: **Name** of the sender, maximum 30, and **Code** of the sender, maximum 20 characters) then click **OK**. The name and code of a sender institute are unique.

New sender	X
Name*	
Test Sender	
Code*	
Test Code	
Address	
Test Address	
Phone number	
+1555-555-555	
E-mail	
test@email.com	
Fax	
-	
OK Cance	

Figure 20 – New sender

• Set **Date of arrival** after clicking into the field. The default date format is: YYYY/MM/DD HH:mm, that is, Year/Month/Day Hour:Minute.

D	Date of arrival 2020/10/26 13:50							
	4	^	00	tobe	r- 2	2020 -		
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	14:00
	27	28	29	30	1	2	3	15:00
	4	5	6	7	8	9	10	16:00
	11	12	13	14	15	16	17	17:00
	18	19	20	21	22	23	24	18:00
1	25	26	27	28	29	30	31	19:00
								•

Figure 21 – Date of arrival

 Select type (Hematology, Biopsy, or other predefined entry specific for the institution, but usually a sample type) of case from the Case code drop-down list, and type in the case number in the Counter field.

Case code	
Hematology	🖂 🛈 🗌 Automatic counter
	Counter
2019 HEM	20685 🚺 🚺 Keeping fields

Figure 22 – Case registration, case code window

- Activate Automatic counter if you want the case code to be defined by the counter, and thus the number at its end will be the first available based on the numbering sequence (Counter field turns inactive if this option is selected). Only the selected case number can be registered if it does not already exist in the system.
- Select **Keeping fields** option if you want to leave entered data in the fields after registering the case.
- The case can be registered by clicking **Registration**. After the registration, the last registered case is indicated in the case registration panel.

#### 3.1.8 Case list of doctors

## Click to open the Case list of doctors.

After selecting the proper doctor and the case status from the drop-down lists, the related cases will be listed in table. The cases in status **In progress, Forwarded, Signed** and **To sign** are listed in chronological order (from oldest to latest) while the cases in **Finished** are listed from latest to oldest.

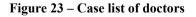
**NOTE**: The number of cases of the same status are indicated at the end of the entry.

Date filtering is only available for cases in **Finished** status. A case selected from the list can be opened with the **Open the case** function at the **Details** section of the table, and it can be read-only and commented.

NOTE: When listing the cases, maximum 100 cases are listed. Click Next to load the next 100.

If a case is urgent, the 💶 icon is displayed before the case number.

octor	5	Case status		Date from:	Date to:
Dr. Bor	nd 🗸	Forwarded (112)	~		10/28/2020
	Case number	Please choose In progress (3)	Days from acception	Case status	Details
	115 0020-BIOP-115	Finished (1)	22	In progress	Open the case
	156 000 000 000 000 000 000 000 000 000 0	Forwarded (112)	14	In progress	Open the case
	1020-BIOP-92	Signed (2)	12	In progress	Open the case
4.	4 2020-BIOP-95	To sign (7)	12	In progress	Open the case
	1000 1000 1000 1000 1000 1000 1000 100	10/16/2020 7:51:50 AM	12	In progress	Open the case
	1020-BIOP-89	10/16/2020 7:51:50 AM	12	In progress	Open the case
	1020-BIOP-88	10/16/2020 7:51:50 AM	12	In progress	Open the case
	1020-BIOP-87	10/16/2020 7:51:50 AM	12	In progress	Open the case
	1 2020-BIOP-86	10/16/2020 7:51:50 AM	12	In progress	Open the case
10.	1020-BIOP-85	10/16/2020 7:51:50 AM	12	In progress	Open the case
11	● 2020-BIOP-84	10/16/2020 7·51·50 AM	12	In progress	Open the case



### 3.1.9 Name of the current user



Figure 24 – Name of the current user

The Name of the current user field displays the user currently logged in to CaseManager™ DX Software.

### 3.1.10 Configuration

Upon clicking the button, the main user configuration panel of CaseManager™ DX Software is displayed.

Configuration	User configuration settings		
User configuration settings	Open slide(s) when Selecting a case:		
System setup	open side(s) when selecting a case.	0	
Users	Open slide(s) when Opening a case:		
Permission groups			
Permissions	Case exclusive mode:		
Scanning profiles	Multi View Mode:		
Examination groups	1x1	~	
Examinations			
Sample location	Display language:		
Sample types	English (United States)	~	
Format of case code			
Registration places	Default search field:		
Report types	Case code	~	
Report type text fields			
Report signer roles	Orientation of the digital slide thumbnail:		
Sender institute	Vertical		
Workgroup	Vertical		
Diagnosis code groups	Size of the digital slide thumbnail:		
Diagnosis code	Small	~	
Data uploader	Sinai		
Integration log	Default state of registration data panel:		
Integration settings	Opened	~	
Cases	( - p		
LDAP settings	Slide display order:		
LDAP users	Staining order	~	
LDAP groups			
Manage slide protections	Group slides by container and/or block:		
Slide storage access			
Database backup	Display the diagnosis next to the other case link:		
Default scan mode	Case IIIK.		
Scan mode rules	Default Theme:		
	Blue Jelly	~	
	and sent		

Figure 25 – Configuration panel

For more information on configuration, see *<u>chapter 4 Configuration</u>*.

- By clicking the button, you can return to the home screen of CaseManager™ DX Software.
- By clicking vou can terminate the current session by signing out from the system.

## **3.2** CaseManager<sup>™</sup> DX Software folder panel

This section of the interface displays the **Case folders** (general folder hierarchy), **User folders** (created by the user), and **Filter** (user-created filters).

### 3.2.1 Case folders

Click to display **Case folders**. The general case folders section shows the default system folders. The main default folders are: **Archived**, **All cases**, **Workgroup's cases**, **My cases**, **High priority**, **Forwarded**, and **Signatures**.

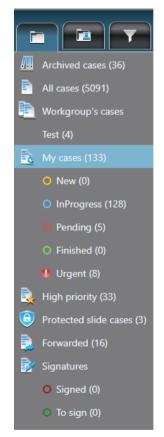


Figure 26 – Case folders

- Archived: This folder contains the archived cases.
- All cases: This folder contains all the cases that are managed by CaseManager™ DX Software.

- Workgroup's cases: This folder contains the cases owned by different workgroups.
- **My cases**: All cases of the user is displayed, listed by date.



Figure 27 – My cases

• **New:** Contains newly assigned cases to the current user.

**NOTE**: When a case is viewed for the first time, it is automatically moved into the In progress folder.

- In progress: Contains cases that are being processed by the pathologist.
- **Pending**: Contains cases that are waiting for additional examinations (special requests from the pathologist) to be finished in the laboratory.
- **Finished**: List of cases that are already closed.
- **Urgent**: List of cases that are marked as urgent by the LIS in general. Urgent cases are very important for the pathology laboratory.

In the **In progress** and **Pending** folders, the **Case forwarding** button is available. Click **Case forwarding** and select person to forward the case to. The forwarded case is displayed in the **Forwarded** folder.

The user can close the case by clicking the **Finish case** button, which is available at the bottom of the **Details** tab if a case is in status **In progress** at the user.

Click **Finish case** to close the case once the diagnosis and the final report for the case have been created. Upon clicking this button, case status is modified automatically from **In progress** to **Finished**.

The case can be either archived by clicking the **Case archiving** button or reopened by clicking **Reopen case.** 

**NOTE**: The **Case archiving** and **Reopen case** buttons are available in a finished folder containing case lists.

Click **Case archiving** to archive finished cases manually. Then the case status is modified automatically and the case is moved from the **Finished** to the **Archived** folder.

**NOTE**: Case archiving is manual by default. Automatic case archiving can be set during the installation of CaseManager<sup>™</sup> DX Software.

At reopening, the case will be included in the **In progress** folder also changing its status from **Finished** to **In progress**.



Figure 28 – Buttons in the Finished folder

Each process is marked with a specific color; the marker color bar appears on the left side of the case card.

- High priority: List of cases that the user signaled as high priority.
- **Protected slide cases**: List of cases that the user signaled as protected.
- **Forwarded**: Forwarded cases belong to this folder. A case can be forwarded by clicking the **Case forwarding** button placed at the bottom of the interface.
- **Signatures**: This folder contains cases that are already signed or waiting for signature. A final report may contain multiple signatures.

**NOTE:** The final report must include at least one digital signature.

- Signed: This folder contains cases that are signed by the user.
- **To Sign**: This folder contains cases that are still pending.



**Figure 29 – Signatures** 

If the **Archived** folder is open, a user can take an archived case clicking **Assign to me.** The case will move to **My cases** folder.



- If the **All cases** folder is open, two functions appear at the bottom of the case list:
  - Assign to me function enables you to assign yourself a case included the All cases folder. If the case is already in assigned to another user, then the first user responsible for the case will receive a system message about the fact that the case has been reassigned.
  - Click Assign to user to select a user to whom the selected case can be assigned.



### 3.2.2 User folders

Click to display the **User folders**. You can create a new folder by clicking the button then defining the name of the folder.

**NOTE:** A folder can contain a maximum of 5 sub-folders.

Cases can be dragged to a folder by the drag-and-drop gesture grabbing the case at case number region of the case bar. Multi-selection of folders is available for you with **Ctrl+click** the cases.

A folder can be deleted by selecting the folder first, then clicking the button. If the folder includes sub-folders and several cases, the sub-folders and all the cases will be deleted as well.

To delete cases from the user folder and leave the folder as it is, first select the case within the folder, then click **Delete from folder**. It is available for you to rename the folder by single-clicking its name, then the **Delete from folder**. The main folder (**Folders**) is the default root folder for user folders, and therefore it cannot be deleted.

### 3.2.3 Filter

Click to display Filter. On this panel you can create, modify, and delete custom filters for searching cases.

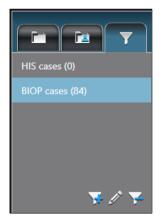


Figure 30 – Filter

Click is to create a filter by defining parameters in the create filter window. Type the name of the filter you want to create into the **Name** input field. Select type from the **Field** drop-down list, set **Operation** (Equal, Not equal, Starts with, Ends with, Greater than, Less than, Greater or equals than, Less or equals than, Contains), and specify field value in the **Value** input field (maximum 100 characters).

Create filter					$-\mathbf{x}$
Name		9			
Connection	Field	Operation	Value	Active	Delete
	Case code 🗸	Equal 🗸			Ť
¢	Case code Date of sample arrival Year tag of case code Sample group Case number Case barcode Sample location Sample type Patient's name Patient's name Patient's insurance number Patient's date of birth Patient's gender Sender name Sender name Sender code Report text Original barcode Diagnosis code description				
				ок	Cancel

Figure 31 – Create filter

You can select any of the following **Field** types as filter condition:

- Case code (e.g. 2019-BIOP-12345)
- Date of sample arrival (specific time the sample has arrived at the pathology laboratory and the case is registered)
- Year tag of case code (2019)
- Sample group (BIOP)
- Case number (12345)
- Case barcode (123456789, created when the assistant or doctor has read the barcode with barcode reader)
- Sample location (for example: breast, brain)
- Sample type (Biopsy, Hematology)
- Patient's name
- Patient's insurance number
- Patient date of birth
- Patient's gender
- Sender name
- Sender code

- Report text
- Original barcode (barcode used by HIS/LIS)
- Diagnosis code (e.g. in SNOMED coding system: M-82543)
- Diagnosis code description (e.g. in SNOMED coding system: mixed mucinous and nonmucinous adenocarcinoma)

#### Set **Operations**:

- Equal
- Not equal
- Starts with
- Ends with
- Contains
- Greater than
- Less than
- Greater or equals than
- Less or equals than

The **Value** field must include the character string (or part of it) that you are looking for. Make sure, that the filter condition is active or not. If filter condition is active, filtering will work based on the previous filter condition. Save the set filter by clicking **OK**, and delete an existing filter condition from the set by clicking **C**.

**NOTE:** The **OK** button appears only if you have entered and set all the necessary parameters. The system automatically creates the filter, and it will be listed on the filter tab.

T	Case list			Default 🗸
Breast 1 (13) mamma (0)	2019-BIOP-301	Samantha Janeway 2/28/1986 SSN: 006396252	scan	% <sup>-</sup>
	2019-BIOP-17361	Samantha Smith 2/28/1986 SSN: 008312883		S
	2019-HEM-19436	Test Patient 17753 2/28/1986 SSN: 007927222		G
	2019-HEM-19438	Test Patient 16393 2/28/1986 SSN: 005342538		S
	2019-HEM-19443	Test Patient 17832 2/28/1986 SSN: 001012569		G
	2019-BIOP-19489	Teszt Emma 2/28/1986 SSN: 007839469	i scan	Ś

Figure 32 – Created filter and filtered case list

The number next to the filter name, is the number of cases that match the filtering condition. This number is automatically updated when clicked, because the actual list is queried. Upon clicking the filter, an automatic query is run according to the set filter condition.

#### Running a query without saving

If you do not want to save query conditions as a filter, running a query based on the set filter condition(s) is still possible. After running the query, the system automatically collects and lists the appropriate cases matching the criteria set.

Create filter					×
Name		<b>Q</b>			
Connection	Field	Operation	Value	Active	Delete
Connection	Field	Operation	value		
	Case code 🗸 🗸	Starts with 💙	2023		T
AND 🗸	Date of sample arrival 💙	Equal 🗸	01/04/2023		Ť
<b>+</b>					
				ОК	Cancel
				ОК	Cancel

Figure 33 – Filter settings example

To link another condition, click F. Prior to setting the additional component, the **Connection** type must be selected from the drop-down list, containing logical operations **AND**, and **OR**. Select **Field** type as the basis for filtering, then **Operation**, and enter **Value**. To run the query, click Q.

Filter components are set as **Active** by default, but can be deactivated if not needed in filtering. Each of the components can be deleted by clicking . Click **OK** to create the filter, or **Cancel** to exit from the create filter window without saving. Query filter remains inactive if filter name and value is not specified.

Filter conditions of the created filter can be edited by clicking  $\mathbb{Z}$ . The created filter can be deleted if you click  $\mathbb{Z}$ .

### 3.3 Case list

This section of the interface displays the list of case groups, which are selected in a folder group. By default, cases are arranged by date. However, it is possible to change this by clicking on the drop down menu in the top right corner of the case list. You can list cases according to the following:

- Default
- Increasing case number
- Decreasing case number
- Scanned
- Reported
- Urgent

**NOTE**: Scanned, Reported and Urgent cases are also arranged by date.

	Case list			Default 🗸
Archived cases (36)	€ 2022-BIOP-1	Kiro Praktór 25/06/1962 SSN: 123456789	<b>. .</b>	Default Increasing case number Decreasing case number Scanned
Test (4)	REPORT 2022-BIOP-11 REPORT			Reported Urgent
My cases (132)  New (0)	2022-BIOP-38	Kiro Praktór 25/06/1962 SSN: 123456789	, son	G
<ul> <li>In progress (128)</li> <li>Pending (4)</li> <li>Finished (0)</li> </ul>	2022-BIOP-101	Kiro Praktór 25/06/1962 SSN: 123456789	scan	G
Urgent (8)	2022-BIOP-133	Kiro Praktór 25/06/1962 SSN: 123456789	scan	S
<ul> <li>Protected slide cases (3)</li> <li>Forwarded (16)</li> </ul>	2022-BIOP-149 REPORT	Kiro Praktór 25/06/1962 SSN: 123456789	I SCAN	S
<ul> <li>Signatures</li> <li>O Signed (0)</li> </ul>	2022-BIOP-153 REPORT		scan	S
O To sign (0)	2022-BIOP-157	Kiro Praktór 25/06/1962 SSN: 123456789	scan	S
	2022-BIOP-258		scan	S
	2022-BIOP-262	Kiro Praktór 25/06/1962 SSN: 123456789	scan	S
	2022-BIOP-299	Kiro Praktór 25/06/1962 SSN: 123456789	scan	S
	2022-BIOP-327	Kiro Praktór 25/06/1962 SSN: 123456789	I SCAN	S
	2022-BIOP-385		scan	S
	2022-BIOP-392 REPORT		I SCAN	S
	2022-BIOP-393		SCAN	S
	2022-BIOP-394	Kiro Praktór 25/06/1962 SSN: 123456789 to teleconsultation		<i>ي</i> ۲
	Assign to user	to teleconsultation		

Figure 34 – Case groups and case list

On the case card the following indicator signals and buttons appear:

- Indicator for Urgent status
- Indicator for High priority status
- Indicator of **Report** status
- Indicator of Scan status
- Add section to the case
- Dpen case for review and/or reporting
- 🔊 Copy case link

The case card also displays the most important case related information such as: number of the case (Case code), name and date of birth of the patient, and Social Security Number (SSN).

2020-BIOP-4	John Doe 9/19/1974	SSN: 123456789	<b>.</b>	S
REPORT				

Figure 35 – Case card

Processes are marked with different colors in the case list. These markings appear on the left side of the case cards indicating the type of group to which the case belongs:

Archived – violet mark on the left side of cases card

My cases group

- New yellow mark on the left side of cases card
- In progress light blue mark on the left side of cases card
- Pending red mark on the left side of cases card
- Finished green mark on the left side of cases card
- Urgent exclamation mark on the cases card

#### Signature group

- Signed dark green color on the left side of cases card
- To sign claret color on the left side of cases card

Priority can be given to a case as follows:

#### • Urgent for all users

An urgent case arrives via the laboratory software module (Track&Sign) marked as urgently processable. If case registration has been performed in CaseManager<sup>™</sup> DX Software, the user can assign this flag to the urgent case.

#### Important for the user only

A case can be marked as urgent by the user that is logged in (for example, to compare with other cases), thus the case is moved to the **High priority** folder. To mark a case as "*High priority*" click the  $\bigstar$  icon when moving the mouse cursor over the case bar on the list.



#### Figure 36 – Case priority

### 3.3.1 Add section

By clicking the user can add extra sections to the selected case. In the **Add section** window the barcode of the section/slide and staining procedure can be specified. The user can add note for each section, this may help the work of the laboratory staff if the CaseManager<sup>™</sup> DX Software is integrated with the local LIS. The sections can be removed from the list by clicking **Delete** in the table.

**NOTE:** If the selected case comes from LIS and includes containers and/or blocks, the container(s) and block(s) must be selected, too, in the **Add section** window.

lected case: 2022-BIOP-38				_
234456	Examination barcode *			Add to li
Slide barcode	Staining	Code	Note	Delete
234456	11q (LSI ATM/Cep11)	2022-BIOP-3811q (LSI	Type here	Delet

Figure 37 – Add section window

After section creation, the thumbnail of the created section appears automatically in the digital slide section.



Figure 38 – Slides after section creation with generic thumbnails

After the scanning process is finished, the existing thumbnails of the sections will be replaced by the thumbnails of the scanned, digital slide. When moving the cursor over a thumbnail, the barcode and staining of the section is shown in a tooltip.



Figure 39 – Slides after scanning with real thumbnails



### 3.3.2 Open and review case

Click on the *button* to open a case. In the middle of the page, the **Report** panel is displayed where you can create, open and review case reports.

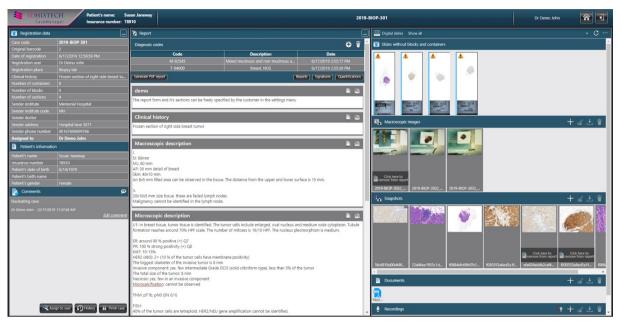


Figure 40 – Full page with Report panel

Alternatively, a case can be opened directly from the browser by entering the following information after **/CaseManager**:

**NOTE:** If the user is not logged in, the login page is displayed.

Sar	mple ID	/go/Case/123
Ext	ernal ID	/go/Case/ExternalID/123

- If a report is already added to the case, you can review or edit it, depending on your user privileges.
- If no report is added yet to the case, click on the *Click here to create a new report* link to create a report.



Figure 41 – Create a new report link

• Select report type from the drop down list displayed in the Create new report window.

Create new report	×
Histology final report	~
	OK Cancel

Figure 42 – Create new report window

**NOTE**: Registration data is displayed by default. You can hide it at the following path: *Configuration/User Configuration Settings/Default state of registration data* panel.

**NOTE**: You can create or edit a report only for cases which are assigned to you.

There are three types of case reports: histology, pathology and autopsy.

- A histology report includes fields such as **Clinical history**, **Macroscopic description**, **Microscopic description**, **Result of special examinations**, **Diagnosis**, and **Note**;
- A pathology report includes fields such as **Macroscopic description**, **Microscopic description**, **Diagnosis**, and **Note**.
- The autopsy report may include fields such as **History**, **External examination**, **Internal** examination, **Microscopic description**, **Cause of death**, **Circumstances of death**.

**NOTE**: Report types and report fields can be customized by the hospital.

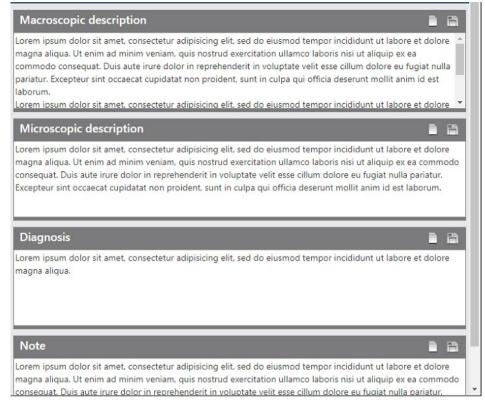


Figure 43 – Report fields section of the Report panel - example

These fields must be filled by the user. Some of these fields, for example **Clinical history** and **Macroscopic description** can be filled automatically by the CaseManager<sup>™</sup> DX Software system, if a HIS and/or LIS integration is available.

At each field, the entered text can be saved as a template for later use by clicking the  $\square$  icon. The saved templates can be opened by clicking  $\square$ , and selecting the template you need from the dropdown list at the top of the templates window. The name of the template can be maximum 80 characters. The text can be changed, and click  $\square$  to save the template.

It is possible to insert template texts to the textbox by using shortcuts. Type #value# to the textbox to insert a template text, e.g.: #Temp1#. Users can use all existing templates and add more templates to a textbox.

If a template is not needed anymore, click 🔲 to delete the selected template.



**Figure 44 – Templates** 

**Diagnosis codes** can be added by clicking 🕒 at the header of diagnosis codes section of the report panel.

To delete an existing code from the diagnosis code list, first select the code, then click

🔁 Report		_
Diagnosis codes		0 T
Code	Description	Date
S82225P	Nondisplaced transverse fracture of shaft of left tibia,	02/11/2023 13:57:53
S82231E	Displaced oblique fracture of shaft of right tibia, subse	02/11/2023 14:00:37
Generate PDF report		Reports Signatures Quantifications

Figure 45 – Diagnosis codes section of the Report panel

To add a diagnosis code to the report sheet, type the fragment of code or text into the search field of the **Add diagnosis code** window, click **Q** to filter for possible results, select the appropriate diagnosis code from the list, and finally click **Add**.

Click Previous/Next to go back/forward a page.

Add diag	jnosis code		×
seg		٩	
Code	Description	Туре	•
S82261J	Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing	ICD	
S82261H	Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing	ICD	
S82261G	Displaced segmental fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing	ICD	
S82261F	Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing	ICD	
S82261E	Displaced segmental fracture of shaft of right tibia, subsequent	ICD	-
Next			
		Add	

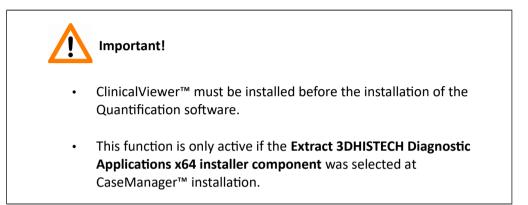
#### Figure 46 – Add diagnosis code

By clicking **Reports**, the reports related to the selected case are listed.

By clicking **Signatures**, it is possible to either request a signature (F) button) or cancel a previous signature request (**Delete** link).

**NOTE**: In the **Signatures** section, one can also sign a case which is assigned to somebody else who requested his/her approval for the case.

By clicking **Quantifications**, the results of a quantification process are displayed.



No Report							
Diagnosis codes 🕂 🛉							
Code		Description		Date			
S82225P Nondisplaced transverse fracture of shaft of left tibia, 02/11/2023 13:57:53							
S82231E	231E Displaced oblique fracture of shaft of right tibia, subse 02/11/2023 14:00:37						
Generate PDF report Reports Signatures Quantification							
Signature status	Signer name	Name of signature req	Date of modification	Signer role	÷		
Pending	Doctor2	SysAdmin	02/11/2023 14:02:19	Consultant	<u>Delete</u>		
Signed	Doctor	SysAdmin	02/11/2023 14:02:47	Professor			

Figure 47 – Signatures

Click **Delete** to delete the signature request. Click **Sign** to sign the report. In both cases, a confirm window is displayed.

The pathologist who prepares report for a case can request a signature from a colleague as a sign of approval.

For example, a junior pathologist can ask for the approval of a more experienced colleague. Cases with severe outcome, such as amputation, in many regions require consensus and, therefore, co-signature from two or more pathologists.

Add signa	ture reque	st	×
Search			
Name	Position	Role	d
Doctor	Doctor	- *	
Doctor2	Doctor	- v	
Doki3	Doctor	- ×	
Doki4	Doctor	- ×	Н
gg bb vv	Doctor	- ×	
Lastnam	Doctor	- v	Ľ
Reencry	Doctor	- ×	
Supervis	Doctor	- ×	
Test	Doctor	- v	
Test10	Doctor	- v	
			Add

After such a request, the case appears in the **To sign** folder of the signing doctor and gets to the **Signed** folder after signing.

Figure 48 – Add a new signature request

Once the report is finished, the user can sign out of the case by clicking on the **Finish Case** button at the bottom of the **Registration data** panel. At the same time, a PDF file is generated with the content of the report. Alternatively, one can also click on **Generate PDF report** button to generate a PDF report before finishing the case.

Click the 🙆 button to return to the case list.

## 3.4 Case details

This section of the user interface displays a case in details. This area summarizes the details of a userselected case: **Registration data**, **Patient's information**, **Other cases**, **Comments**, **Report**, tissue blocks in **Digital slides** and **Attachments**: macroscopic images, snapshots from ClinicalViewer<sup>™</sup> (for more details, see *ClinicalViewer<sup>™</sup> User's Guide*), documents, or audio recordings.

**NOTE**: The **Report** window is only available if the case is opened in a new tab. For more information, see <u>chapter 3.3.3 Create/open report</u> in <u>chapter 3.3 Create/open report</u>.

Alternatively, case details can be opened directly from the browser by entering the following information after **/CaseManager**:

**NOTE:** If the user is not logged in, the login page is displayed.

Sample ID	/go/CaseDeatils/123
External ID	/go/CaseDetails/ExternalID/123

Sample Code	/go/CaseDetails/SampleCode/123
Sample Barcode	/go/CaseDetails/Barcode/123
Original Barcode	/go/CaseDetails/OriginalBarcode/123

On the header of this section, the following buttons are available:

- Refresh case details
  - Download and Slide protections icons
    - Ownload and install Viewer application icon
    - Download and install Quantification software icon



- ClinicalViewer<sup>™</sup> must be installed before the installation of the Quantification software.
- This function is only active if the Extract 3DHISTECH Diagnostic Applications x64 installer component was selected at CaseManager<sup>™</sup> installation.

Slide protections: click this icon and check the checboxes next to the slides that you want to protect from editing in the displayed Slide protections window.

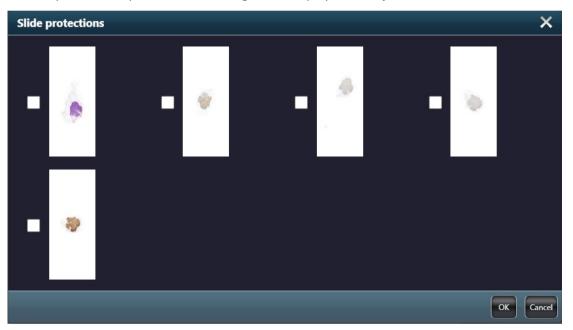


Figure 49 – Slide protections

#### 3.4.1 Details tab

This tab summarizes various case-related data grouped into the following parts:

**Note**: The display of most case-related data can be customized in **User configuration settings**, see *chapter 4 Configuration*.

- Registration data Data such as Date of registration, Sender institute, Sender doctor, Assigned to, etc. that come from the LIS.
- Patient's information Patient's name, Patient's birth name, Insurance number, and Patient's date of birth data received from the LIS or HIS

• Other cases / Other cases with diagnosis – Related cases in the database can be opened in a new browser tab with one click on the case code. The related diagnosis is also displayed next to the case code. This feature can be enabled in the User configuration settings.

冒 Registration dat	ta					
Case code			2022-BIO	P-1		
Original barcode				1234		
Date of registration 2				25/02/2022 13:51:29		
Registration user			SysAdmin			
Registration place			Biopsy lab			
Clinical history			Clinical hi	story az is Clinical hist	ory az is Clinical his	
Number of container						
Number of blocks			14			
Number of sections						
Sender institute			Test Send	er 1		
Sender institute code			TS1			
Sender doctor			Dr. Who			
Sender address			Test Address 1			
Sender phone numbe	2r		+361123451			
Assigned to		_	SysAdmii	1		
Patient's inform	ation					
Patient's name			Kiro Prakt	ór		
Insurance number			12345678	9		
Patient's date of birth			25/06/1962			
Patient's birth name			Változik			
Patient's gender			Female			
Other cases						
2022-BIOP-7	2022-BIOP-3115	2022-E	BIOP-38	2022-BIOP-139	2022-BIOP-4219	
2022-BIOP-2	2022-BIOP-10	2022-E	BIOP-15	2022-BIOP-24	2022-BIOP-30	
2022-BIOP-53	2022-BIOP-96	2022-B	IOP-129	2022-BIOP-130	2022-BIOP-131	
2022-BIOP-134	2022-BIOP-136	2022-B	IOP-140	2022-BIOP-141	2022-BIOP-146	
Add a comment	I History					

#### Figure 50 – Details tab

Comments – This section contains comments that have been added to the case. A doctor, who is not the assignee of a case, is still able to review a case. This user cannot edit the case, but can add a comment to the bottom of the details tab after clicking Add a comment. Enter your comment first, then click OK to save. The doctor who is responsible for the case receives a message informing him/her that a new comment has been added to the case.

Add a comment	×
Type your comment*	
	OK Cancel

#### Figure 51 – Add comment

• Once you click **History**, the history table of the case is automatically opened. This table summarizes all the logged events related to the case. This table may include laboratory events as well, but for this the integration with the LIS is necessary for this information.

Date	Event type	Responsible user	Target user	Note
10/26/2020 4:11:06 PM	Case registration	Test Doctor		Case registered
10/26/2020 4:16:53 PM	Case handover	Test Doctor	Test Doctor	Case handed over
10/26/2020 4:20:21 PM	Add section	Test Doctor		2020-BIOP-13211q(LSIATM/Ce
10/26/2020 4:20:21 PM	Add section	Test Doctor		2020-BIOP-1321pdeletion
10/26/2020 4:20:21 PM	Add section	Test Doctor		2020-BIOP-13211q(LSIATM/Ce
10/27/2020 8:50:27 AM	Create report	Test Doctor		Report was created
10/27/2020 8:50:34 AM	Signature request	Test Doctor	Test Supervisor Doctor	Signature request added
10/27/2020 8:52:17 AM	Signature request	Test Doctor	Test Doctor 2	Signature request added

Figure 52 – Case history

### 3.4.2 Digital slides tab

This tab provides the following three functionalities:

- Lists digital slides related to the case, stored in a SlideStorageDx<sup>™</sup> server.
- Displays the status of the digitization process.
- Offers the option to ask for special examinations for a case to make a better diagnosis.

The view of the digital slides can be customized: they can be arranged horizontally and vertically, too, at the **Orientation of the digital slide thumbnail** option selector under the **User configuration settings** menu.



Figure 53 – Digital slides arranged horizontally



Figure 54 – Digital slides arranged vertically

**NOTE**: If the case is opened in a new tab, **Registration data** and **Report** panels can be minimized for a larger display of **Digital slides** and other **Attachments**.

The thumbnail size of a digital slide can be small, medium and large and can be set by the **Size of the digital slide thumbnail** option selector under the **User configuration settings** menu.



Figure 55 – Small thumbnail size of a digital slide



Figure 56 – Medium thumbnail size of a digital slide



Figure 57 – Large thumbnail size of a digital slide

The slides can be displayed in three categories:

- with blocks
- with containers
- without blocks and containers

If the case involves a section that is not yet digitized, a generic schematic thumbnail image is visible. If the scanning of the slide is finished, the thumbnail of the digital slide will appear.

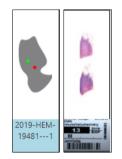


Figure 58 – Generic and real thumbnail views of a slide

If the same slide was scanned multiple times, they are arranged closer together in one cluster.

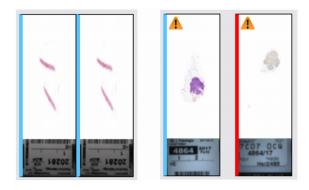


Figure 59 – Digital slide thumbnails in one cluster and separately

By moving the cursor over the thumbnail, the name, staining, barcode, status, and scanning date of the slide are shown on a tooltip.

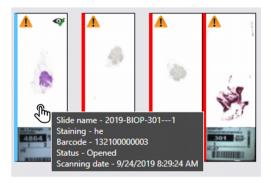


Figure 60 – Thumbnail tooltip

The label of the digital slide can be rotated by clicking on the label icon. This icon appears if the cursor is moved over the label.

51/199		
1.0	132100000005 - Progesteron (PR)	

Figure 61 – Rotating icon

If CaseManager<sup>™</sup> DX Software is integrated with LIS, LIS sends accurate information about the sections, for example, of containers and blocks:

• **Container name** – The name of the container from which the histological section is taken from.

**NOTE:** Move the mouse cursor over <u>Info</u> at the container header to view additional information on sample type, location and other note.

• Block name – The name of the block from which the histological section is taken from.

**NOTE:** Blocks and containers are primarily ranked by name. If there are more blocks/containers with the same name, they are secondarily ranked by barcode and with the same barcode by date.

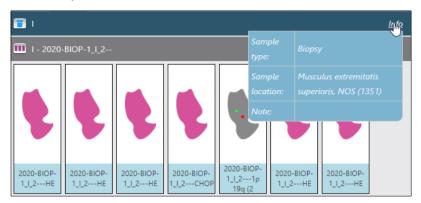


Figure 62 – Container and block name information

If integrated with Track&Sign<sup>M</sup>, to make a better diagnosis, the pathologist can also ask for special examinations for a case. The extra requests can be added to the container(s) or to the block(s) registered to the case. The Pathologist's request will be displayed in Track&Sign<sup>M</sup> on the **Special examination** page.

Click the bit icon to open the Special examination request window.



Figure 63 – Special examination request icon

 Select Containers without blocks, Blocks, Protocol(s), Examination groups and Examinations and your request is added to the special examination requests list. A Note can also be specified. When finished, click Send request. If a Special examination request is sent, the status of the case is updated from In progress to Pending. If all Special examination requests are sent but the LIS process has not started yet, the status of the case is updated from Pending to In progress. If processing a Special examination request has not started yet by LIS, it can be both deleted and its priority can be set.

	ers without blocks	~		Examination group	s ~	Note		
Blocks Please	choose	Add protocol     Please choo		Examinations Please choose	~			
0	Container	Block	Examination gro	oup Examin	nation St	atus	Note	
0	1	2022-BIOP-1_I_1-	- Rutin histolog	/ Name	of test N	lew		1
0		2022-BIOP-1_III_15	FISH	CEP6 (	Green N	lew		Ť
0		2022-BIOP-1_II_1-	- Immunohistocher					Ť
0	II	2022-BIOP-1_II_1-	- Immunohistocherr	iistry H-cald	esmon N	lew	testtest	Ĩ
0		2022-BIOP-1_I_11	Rutin histolog	/ Name				
0		2022-BIOP-1_I_1-	- Rutin histolog	/ Stair	ning N	lew		Í
0		2022-BIOP-1_III_1-	Immunohistochen	iistry Oc	t2 N			ī
0		2022-BIOP-1_II_1-	- FISH	CDI	(4 F	nd		
0		2022-BIOP-1_I_2-			gen F		Kéne mint állat	

Figure 64 – Special examination request

## 3.4.3 Attachments tab

This panel may include **Macroscopic images**, **Snapshots**, **Documents**, and **Recordings** as attachments of the case, and any of these can be added to the case report as well.

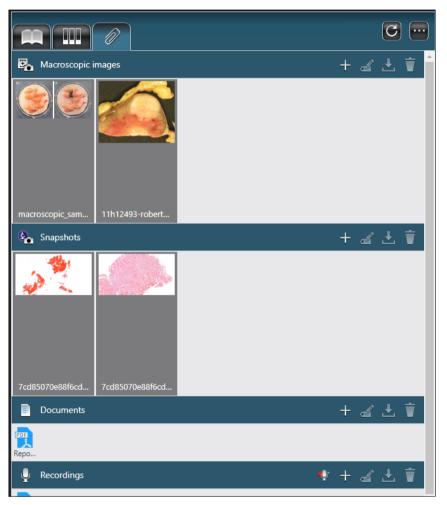


Figure 65 – Details of a selected case

At the attachment tab of the case details section the user can upload files by clicking <sup>±</sup>. In the **Upload attachment** window the user can browse for one or more file(s). If you double-click an attachment, it will be open in a new browser tab.

Supported attachment types:

- macroscopic images
- snapshots
- documents
- recordings

Audio files recorded in Track&Sign<sup>™</sup> are listed in **Recordings**, macroscopic images are listed in **Macroscopic images**, and the snapshots taken in ClinicalViewer<sup>™</sup> are listed in **Snapshots**.

Supported file formats:

- avi
- bmp, gif, jpeg, jpg, png, tif (bmp and tif files cannot be attached to a case report)
- txt, rtf, doc/docx, ods/odt
- pdf
- mp3, wav
- xls/xlsx

A description can also be added to the selected file(s). The description appears when the cursor is moved over the microscopic/snapshot image or the appearing icon (documents/recordings). The maximum length of the character string is 250 when naming the attachment, and the maximum file size of attachments is 10MB.

Upload attachment		×
Description		
Files* Choose Files No file chosen		
	OK Cancel	

Figure 66 – Upload attachment window

By clicking the distance button the **Edit attachment** window opens and a previously uploaded file's **Description** and **Attachment type** can be modified.

Edit attachment	×
Description	
Report	
Attachment type	
Documents	~
	OK Cancel

Figure 67 – Edit attachment window

By clicking  $\blacksquare$ , a previously uploaded file can be downloaded, and by clicking  $\square$ , a previously uploaded file can be deleted.

**NOTE:** To use the features mentioned above, you must select a file first.

Click the substrained button to record an audio file as an attachment to the selected case. In the **Audio recorder** window you can start, pause, stop, and save your voice recording session.

**NOTE:** In the file name, the case number is fixed, so it cannot be edited or deleted but a note can be added to it.



Figure 68 – Audio recorder window

**NOTE**: The **Audio Recorder** feature requires a secure (HTTPS) connection. The microphone must be enabled in your browser prior using it for recording.

Ţ	Will you allow cc245.3 microphone?	dh.local to use your		
	<u>M</u> icrophone to share: Microphone Array (Re	altek High Definition Audi \vee	cc245.3dh.local wants to	×
	Remember this dec	ision	Use your microphone	
	<u>A</u> llow	<u>D</u> on't Allow	Allow Block	

Figure 69 - Allow the site to use the microphone in Mozilla Firefox and Google Chrome

### 3.4.4 Opening slides in ClinicalViewer™

At the **Digital slides** panel of the **Case details** section after the scanning process, the thumbnail of the digital slides appear. Once you click on the slide thumbnail, the digital slide automatically will be opened in ClinicalViewer<sup>™</sup>.

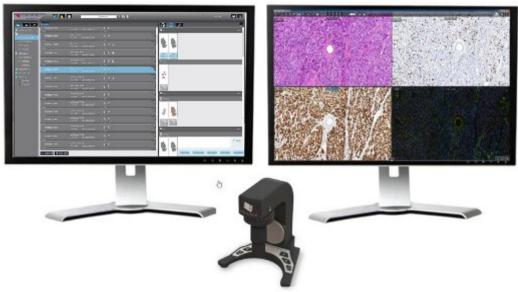


Figure 70 – Open digital slides in ClinicalViewer™

The patient and staining data is displayed in ClinicalViewer<sup>™</sup>, as well, on the actual digital slide. This feature makes the management of such data more accurate during the diagnostic process and helps to avoid any mishandling or displacement of patient data.

Digital slides can have three statuses:

- 1. New
- 2. Opened
- 3. Examined
- New A digital slide is already scanned but the user has not opened it yet in ClinicalViewer™.
- **Opened** The user has already opened the digital slide in ClinicalViewer<sup>™</sup>.
- **Examined** The user has already finished examining the digital slide. Click the icon **Set as examined** (see figure below) on the slide thumbnail to set this status.

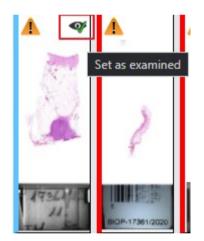


Figure 71 – Set digital slide as examined

The status of a slide is user-depending. For example, the user who has opened a slide has the slide in status **Opened** but the user who has not yet opened it has the slide in status **New**.

The status of a slide is marked with a bold, colored borderline on te left side of the slide:

- $\circ$  **New** red
- **Opened** blue
- **Examined** green



Figure 72 – Colored marking of the status of digital slides

On the slide in status **Opened**, click **v** to set the status **Examined**.



Figure 73 – Digital slide in status Opened

On the slide in status **Examined**, click voice to set the status **Opened**.

Figure 74 – Digital slide in status Examined

These icons are displayed when the related cases are in status In progress and Pending.

On a digital slide tab, the  $\stackrel{\checkmark}{1}$  icon shows if the slide is made on a non-diagnostic (Dx) but research (Rx) scanner.



Figure 75 – Digital slide made on a non-Dx (Rx) scanner

Move your cursor over the 💐 icon to show the objective and resolution information of the

slide. Note that the color of this icon varies depending on objective type. The kicon shows which slide is actually open in ClinicalViewer™.



Figure 76 – Objective/Resolution info and Open in ClinicalViewer™ icons



Figure 77 – ClinicalViewer<sup>™</sup> - patient and staining data

# 4 Configuration

Click to get to the **Configuration** menu of CaseManager<sup>™</sup> DX Software. Upon clicking this button the main user configuration panel of CaseManager<sup>™</sup> DX Software is displayed.

Configuration	User configuration settings
User configuration settings System setup	Open slide(s) when Selecting a case:
Users Permission groups	Open slide(s) when Opening a case:
Permissions	Case exclusive mode:
Scanning profiles	Multi View Mode:
Examination groups	1x1 ×
Examinations	
Sample location	Display language:
Sample types	English (United States)
Format of case code	Default search field:
Registration places Report types	Case code
Report type text fields	
Report signer roles	Orientation of the digital slide
Sender institute	thumbnail:
Workgroup	Vertical
Diagnosis code groups	Size of the digital slide thumbnail:
Diagnosis code	Small
Data uploader	
Integration log	Default state of registration data panel:
Integration settings	Opened v
Cases	
LDAP settings	Slide display order:
LDAP users LDAP groups	Staining order
Manage slide protections	Group slides by container and/or block:
Slide storage access	
Database backup	Display the diagnosis next to the other
Default scan mode	case link:
Scan mode rules	Default Theme:
	Blue Jelly

Figure 78 – Full configuration panel

In this panel you can deactivate/activate system preferences available in your permission group concerning several topics.

**NOTE**: Only the administrator user has access to all the configuration options. Users have access only to those options that the administrator have set for this panel.

- By clicking the button, you can return to the home screen of CaseManager™ DX Software. \_\_\_\_
- By clicking 🗾 you can terminate the current session by signing out from the system.

## 4.1 General description of permission groups

Configuration that is available for you to see, set or modify can vary depending on the permission group you are in (**System administrator, Administrator, Assistant**, **Doctor** or **Supervisor doctor**).

The below table includes all the visible configuration options for each group that are set as default:

Configuration	Administrator	Doctor / Supervisor doctor / Assistant
User configuration settings	$\oslash$	$\bigcirc$
System setup	$\bigcirc$	$\otimes$
Users	$\bigcirc$	$\bigcirc$
Permission groups	$\oslash$	$\otimes$
Permissions	$\oslash$	$\otimes$
Institution(s)	Only System administrator	$\otimes$
Scanning profiles	$\oslash$	$\bigcirc$
Examination groups	$\bigotimes$	$\bigcirc$
Examinations	$\oslash$	$\bigcirc$
Sample location	$\oslash$	$\bigcirc$
Sample types	$\oslash$	$\bigcirc$
Format of case code	$\oslash$	$\bigcirc$
Registration places	$\bigotimes$	$\bigcirc$
Report types	$\oslash$	$\otimes$
Report type text fields	$\oslash$	$\otimes$
Report signer roles	$\oslash$	$\otimes$
Sender institute	$\oslash$	$\oslash$
Workgroup	$\bigcirc$	$\bigcirc$

Diagnosis code groups	$\bigcirc$	$\bigcirc$		
Diagnosis code	$\bigcirc$	$\bigcirc$		
Data uploader	$\bigcirc$	$\otimes$		
Integration log	$\bigcirc$	$\bigcirc$		
Integration settings	$\bigcirc$	$\otimes$		
Cases	$\bigcirc$	$\otimes$		
LDAP settings	$\bigcirc$	$\otimes$		
LDAP users	$\bigcirc$	$\otimes$		
LDAP groups	$\bigcirc$	$\otimes$		
Protocols	Only System administrator	$\otimes$		
Protocol content	Only System administrator	$\otimes$		
Manage slide protections	$\bigcirc$	$\otimes$		
Slide storage access	$\bigcirc$	$\otimes$		
Database backup	$\bigcirc$	$\otimes$		
Default scan mode	$\bigcirc$	$\bigcirc$		
Scan mode rules	$\bigcirc$	$\bigcirc$		

#### The below table includes all the configuration options that each group can set or modify:

Configuration	Administrator	Doctor	Supervisor doctor	Assistant
User configuration settings	$\oslash$	$\oslash$	$\bigcirc$	$\bigcirc$
System setup	$\oslash$	$\otimes$	$\otimes$	$\otimes$
Users	All	Private	⊘Private	Private
Permission groups	$\bigcirc$	$\otimes$	$\otimes$	$\otimes$
Permissions	$\oslash$	$\otimes$	$\otimes$	$\otimes$
Institution(s)	Only System administrator	$\otimes$	$\otimes$	$\otimes$
Scanning profiles	$\bigcirc$	$\otimes$	$\otimes$	$\oslash$
Examination groups	$\oslash$	$\otimes$	$\otimes$	$\oslash$
Examinations	$\oslash$	$\otimes$	$\otimes$	$\oslash$
Sample location	$\oslash$	$\otimes$	$\otimes$	$\bigcirc$
Sample types	$\oslash$	$\otimes$	$\otimes$	$\bigcirc$
Format of case code	$\oslash$	$\otimes$	$\otimes$	$\otimes$
Registration places	$\oslash$	$\otimes$	$\otimes$	$\otimes$
Report types	$\oslash$	$\otimes$	$\otimes$	$\otimes$
Report type text fields	$\oslash$	$\otimes$	$\otimes$	$\otimes$
Report signer roles	$\oslash$	$\otimes$	$\otimes$	$\otimes$
Sender institute	$\oslash$	$\oslash$	$\bigcirc$	$\oslash$
Workgroup	$\oslash$	$\otimes$	$\otimes$	$\otimes$
Diagnosis code groups	$\oslash$	$\otimes$	$\otimes$	$\otimes$
Diagnosis code	$\oslash$	$\otimes$	$\otimes$	$\otimes$
Data uploader	$\oslash$	$\otimes$	$\otimes$	$\otimes$
Integration log	$\oslash$	$\oslash$	$\bigcirc$	$\oslash$
Integration settings	$\bigcirc$	$\otimes$	$\otimes$	$\otimes$

Cases	$\bigcirc$	$\otimes$	$\otimes$	$\otimes$
LDAP settings	$\oslash$	$\otimes$	$\otimes$	$\otimes$
LDAP users	$\bigcirc$	$\otimes$	$\otimes$	$\otimes$
LDAP groups	$\oslash$	$\otimes$	$\otimes$	$\otimes$
Protocols	$\oslash$	$\otimes$	$\otimes$	$\otimes$
Protocol content	Only System administrator	$\bigotimes$	$\bigotimes$	$\otimes$
Manage slide protections	$\bigcirc$	$\otimes$	$\bigotimes$	$\otimes$
Slide storage access	$\bigcirc$	$\otimes$	$\otimes$	$\otimes$
Database backup	$\oslash$	$\otimes$	$\otimes$	$\otimes$
Default scan mode	$\oslash$	$\otimes$	$\bigcirc$	$\otimes$
Scan mode rules	$\bigcirc$	$\otimes$	$\bigcirc$	$\otimes$

If Track&Sign<sup>™</sup> is integrated with CaseManager<sup>™</sup> DX Software, the Assistant permission group is divided into several subgroups:

- Case registration assistant
- Gross examiner assistant
- Tissue processing assistant
- Sectioning assistant
- Scanning assistant
- Report reviewer assistant

Important!

If Track&Sign<sup>™</sup> is integrated with CaseManager<sup>™</sup> DX Software, the Assistant permission group includes all the above subgroups throughout the document.

**Note:** While the administrator can set or modify all users, the doctor, supervisor doctor or assistant can only set or modify their own users.

Note: The integration log is a read-only setting that no user has access to set or modify.

Configuration	User configuration settings
User configuration settings System setup	Open slide(s) when Selecting a case:
	Open slide(s) when Opening a case:
Permission groups	
Permissions	Case exclusive mode:
Scanning profiles	Multi View Mode:
Examination groups	1x1 v
Examinations	
Sample location	Display language:
Sample types	English (United States)
Format of case code	Default search field:
Registration places	
Report types	Case code 🗸
Report type text fields	Orientation of the digital slide
Report signer roles	thumbnail:
Sender institute	Vertical
Workgroup	
Diagnosis code groups	Size of the digital slide thumbnail:
Diagnosis code	Small ~
Data uploader	
Integration log	Default state of registration data panel:
Integration settings Cases	Opened v
LDAP settings	Cline disular andar
LDAP settings	Slide display order:
LDAP users	Staining order
Manage slide protections	Group slides by container and/or block:
Slide storage access	
Database backup	Display the diagnosis next to the other
Default scan mode	case link:
Scan mode rules	
	Default Theme:
	Blue Jelly V

Figure 79 – Configuration menu set as default for an Administrator

Users having administrator role can modify their own password, access Slide Storage and manage user configuration settings, system setup, users and their permissions, intitution(s) (only System administrator), permission groups, saved scanning profiles, examination groups (for example: immunohistochemistry), examinations (list of staining, for example, Ki67), sample location (breast, brain), sample types, format of case code, registration places, report types, report type text fields, report signer roles, sender institute, workgroup, diagnosis code groups, diagnosis code, data uploader, integration log, integration settings, all the cases, LDAP settings, LDAP users, LDAP groups, Manage slide protections, Protocols (only System administrator), Protocol content (only System administrator), Slide storage access, database backup, default scan mode and scan mode rules.

Only the administrator has permission to delete cases and users.

Deletion is only a logical deletion, each deletion (user or case) can be reverted. If you are in administrator role, please refer to CaseManager<sup>M</sup> DX Software Administrator Guide for more details.

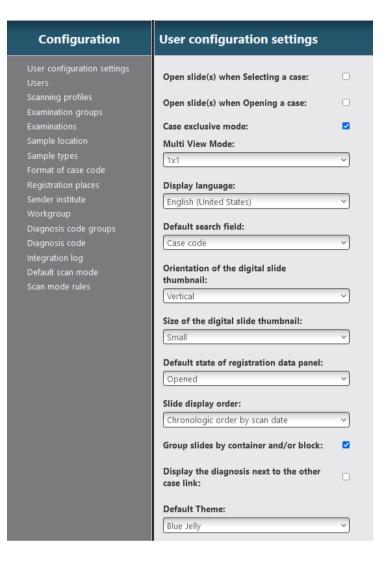


Figure 80 – Configuration menu set as default for Normal users (Doctor / Supervisor doctor / Assistant)

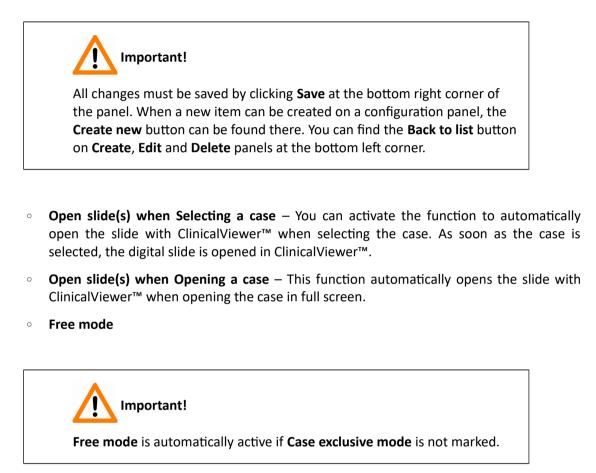
Normal users that belong to **Doctor / Supervisor doctor / Assistant** permission group, can modify their own password and manage user configuration settings, users, saved scanning profiles, examination groups (for example: immunohistochemistry), examinations (list of staining, for example, Ki67), sample location (breast, brain), sample types, format of case code, registration places, sender institute, workgroup, diagnosis code groups, diagnosis code, integration log, default scan mode and scan mode rules.

**NOTE**: Required input fields are marked with red '\*' characters throughout CaseManager<sup>™</sup> DX Software.

## 4.2 Configuration options for normal users

## 4.2.1 User configuration settings

On this panel, the users can set their own User configuration settings.



In **Free mode**, any slide can be opened from any case in CaseManager<sup>™</sup> DX Software. This mode is very useful to compare, for example, already diagnosed slides with ones that are actually being examined. **Free mode** makes it possible to handle slides in **Mixed case mode**. In this mode, the case information bars are displayed in different colors in ClinicalViewer<sup>™</sup> indicating that the slides belong to different cases. The case information bar of the selected case is displayed in blue (see the middle panel in the picture below).

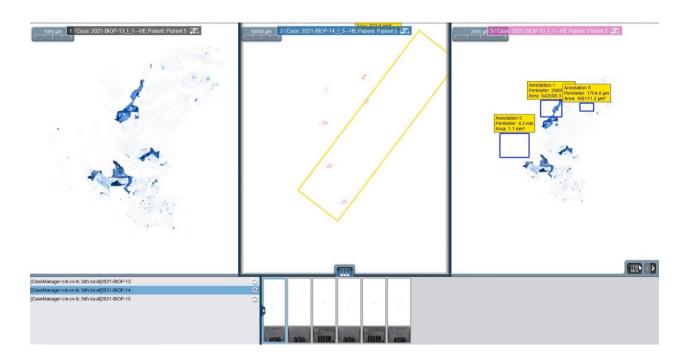
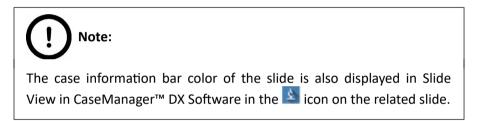
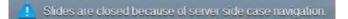


Figure 81 – Mixed case mode



• Case exclusive mode

In **Case exclusive mode**, slides can be opened from only one specific case in CaseManager<sup>™</sup> DX Software. In this mode, the opened slides will be closed in ClinicalViewer<sup>™</sup> when changing between cases and the following message is displayed on the screen:



If there is a change between **Free mode** and **Case exclusive mode** in CaseManager<sup>™</sup> DX Software, ClinicalViewer<sup>™</sup> must be closed for the new setting to take effect.



Figure 82 – Exclusive view setting changed error message

- Multi View mode The multiview of slides in ClinicalViewer can be configured here, too, in a drop-down menu. A maximum of nine slides can be opened in a multiview grid from 1x1 to 3x3 views/panes. You can open a set of slides here consecutively by clicking any slide of a selected case. For more information on the ClinicalViewer™ functionalities, see ClinicalViewer™ 2.9 User's Guide.
- **Display language** Select the language of the interface.
  - English (United States)
  - English (United Kingdom)
  - German (Germany)
  - Hungarian (Hungary)
  - Italian (Italy)
  - Spanish (Spain, International Sort)
- Default search field Set type of field used by default in searching.
  - Case code e.g: 2019-HEM-1234
  - Case barcode e.g: 12345678910
  - Sample original barcode e.g: barcode received from the LIS or HIS
  - Patient's name or SSN e.g: patient's information
- Orientation of the digital slide thumbnail Set orientation of the digital slides.
  - Vertical
  - Horizontal
- Size of the digital slide thumbnail Set default size of the digital slide thumbnails on the digital slides tab of the Case details panel.
  - Small (default, matching earlier software versions)
  - Medium (1.5x)
  - Large (2x)
- **Default state of registration data panel** Set default state of registration data panel when you open a case in new browser tab.
  - Opened Registration data is visible
  - Closed Registration data is hidden
- Slide display order Set the display order of slides on the Digital slides tab here. The following values can be set by clicking the drop-down menu:
  - Chronological order by scan date
  - Staining order
  - Alphabetical order

- Group slides by container and/or block Mark this checkbox to group slides by container and/or block. Unmark the checkbox to display the slides without any grouping. This option is ideal for cases with a lot of slides (30-50), it is optimized for the best use of the available screen size.
- **Display the diagnosis next to the other case link** If this checkbox is ticked, the diagnosis is displayed next to Other cases after saving.
- **Default Theme** The following default themes can be selected from the drop-down menu:
  - BlackJellyDark
  - BlackJellyBlue
- Case details customization Customize case details information on the Registration data, Patient's information, Other cases and Comments panels.

**Note**: For safety reasons the Case code, Patient's name and Insurance number fields cannot be disabled by the user in the User configuration settings.

Case details customization	<b>T</b> Registration data	
Select/Unselect all Registration data	Case code	2020-BIOP-1
<ul> <li>Original barcode:</li> </ul>	_	
<ul> <li>Date of registration:</li> </ul>	Patient's information	
<ul> <li>Registration user:</li> </ul>	Patient's name	John Doe
<ul> <li>Registration place:</li> </ul>	Insurance number	123456789
<ul> <li>Clinical history:</li> </ul>		
<ul> <li>Number of containers:</li> </ul>		
<ul> <li>Number of blocks:</li> </ul>		
<ul> <li>Number of sections:</li> </ul>		
<ul> <li>Sender doctor:</li> </ul>		
<ul> <li>Sender institute:</li> </ul>		
<ul> <li>Sender institute code:</li> </ul>		
<ul> <li>Sender address:</li> </ul>		
<ul> <li>Sender phone number:</li> </ul>		
<ul> <li>Assigned to:</li> </ul>		
Select/Unselect all Patient information		
<ul> <li>Patient's date of birth:</li> </ul>		
<ul> <li>Patient's birth name:</li> </ul>		
<ul> <li>Patient's gender:</li> </ul>		
Select/Unselect all Other cases		
Select/Unselect all Comments		

Figure 83 – Case details customization – basic view

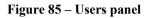
elect/Unselect all Registration data 🛛 🔽	Case code		2020-BIOP-1
<ul> <li>Original barcode:</li> </ul>	Original b	arcode	
<ul> <li>Date of registration:</li> </ul>	Date of re	gistration	9/1/2020 3:56:54 AM
<ul> <li>Registration user:</li> </ul>	Registratio	on user	SysAdmin
• Registration place:	Registratio	on place	Biopsy lab
<ul> <li>Clinical history:</li> </ul>	Clinical his	,	
•		f containers	
<ul> <li>Number of containers:</li> </ul>	Number o		16
<ul> <li>Number of blocks:</li> </ul>	Number o	f sections	16
<ul> <li>Number of sections:</li> </ul>	Sender ins	stitute	Test Sender 1
○ Sender doctor:	Sender ins	stitute code	TS1
○ Sender institute:	Sender do		
	Sender ad	dress	Test Address 1
<ul> <li>Sender institute code:</li> </ul>	_	one number	+361123451
<ul> <li>Sender address:</li> </ul>	Assigned	to	Demo
• Sender phone number:	🗹 칠 Patie	nt's information	
<ul> <li>Assigned to:</li> </ul>	Patient's n	ame	John Doe
elect/Unselect all Patient information 🛛 🔽	Insurance	number	123456789
<ul> <li>Patient's date of birth:</li> </ul>	Patient's d	late of birth	9/19/1974
<ul> <li>Patient's birth name:</li> </ul>	Patient's b	oirth name	
<ul> <li>Patient's gender:</li> </ul>	Patient's g	jender	Male
elect/Unselect all Other cases		r cases	
elect/Unselect all Comments	2020-BIO	P-43	2020-BIOP-42
	2020-BIO	P-48	2020-BIOP-50
	2020-BIO	P-45	2020-BIOP-47
	2020-BIO	P-44	2020-BIOP-49
	2020-BIO		2020-BIOP-2

Figure 84 –	Case	details	customization -	– full	view

#### 4.2.2 Users

The **Users** panel contains the list of registered users in the system. Supervisor doctor, doctor, and assistants are allowed to view the list of users by default.

Users	Jsers												
Name	Username	Permission gr	Workgroup	Date of creati	E-mail	Phone number	Country	City	Zip code	Address	License number	Note	
													Change password Edit Delete
		Administrator		25/02/2022 01	Administrator								Edit
				25/02/2022 01									Edit Delete
	doctor	Doctor		28/02/2022 08									Edit Delete
				12/04/2022 09									Edit Delete



 You can edit your own user data, and change your password if needed. Click Edit to modify your personal details, and click Change password if you would like to change your password. Enter your old password first, then type in your new password and confirm it.

Users
Change password
Old password*
Password*
Confirm password*

Figure 86 – Change password

If you edit user data, consider that the maximum characters are 30 for **Username**, 10 for **Zip code** and 50 for **License number**.

After the first login, all users must change their password. It is very important from security and data protection point-of-view.

**NOTE:** It is recommended that the password is at least 8 characters long, and it contains at least one lowercase and an uppercase character, and a number.

Only the administrator can create, edit or delete other users. The **User position**, **Workgroup** and **Permission group** of a registered user can only be edited by the administrator, too, after clicking **Edit**. A user can be deleted only if the user does not manage any case that is "In progress" status.

### 4.2.3 Scanning profiles

If you are a supervisor doctor, doctor, or an assistant, you can list the saved scanning profiles. An administrator or an assistant can create or edit scanning profiles but only an administrator can delete them. A normal user is allowed to check the saved scanning profile used for scanning.

**NOTE**: The default scanning profile cannot be deleted. If a user creates a new default scanning profile, this new one functions as default.

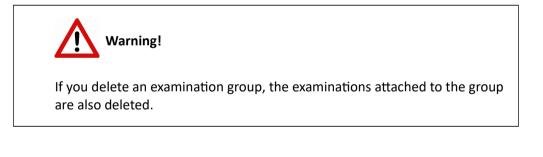


**Figure 87 – Scanning profiles** 

#### 4.2.4 Examination groups

If you are a supervisor doctor, doctor, or an assistant, you can list the saved examination groups. These examination groups have been defined and created by the hospital before installation. The reference code of an examination group is unique. Examination groups can be as follows: **Immunohistochemistry, Routine Histology, FISH, Routine Cytolgy**, etc.

An administrator or assistant can create or edit examination groups but only an administrator can delete them. Maximum 10 examination groups can be created.



Examination groups						
Reference code	Name of examination group					
HC		Edit Delete				
GP	General Processing	Edit Delete				
FSH		Edit Delete				
MC	Molecular (hematology)	Edit Delete				
RTC		Edit Delete				
RTH	Rutin histology	Edit Delete				

**Figure 88 – Examination groups** 

#### 4.2.5 Examinations

The examinations are already defined by the hospital before installation. For example: **CD21**, **Ki67**, **HER2**, **HER2 FISH**, etc. The table lists staining types of an examination group, and this list can be customized by the hospital.

Examinations						
Examination group	Name	Default scanning profile				
Rutin histology			Edit Delete			
Rutin histology			Edit Delete			
FISH			Edit Delete			
Immunohistochemistry			Edit Delete			
Rutin histology			Edit Delete			

Figure 89 - Staining types of an examination group

An administrator or assistant can create or edit examinations but only an administrator can delete them. Supervisor doctors and doctors can only list the saved examinations (staining types).

**NOTE:** The name of an examination within an examination group must be unique.

#### 4.2.6 Sample location

If you are a supervisor doctor, doctor, or an assistant, you can list the saved sample locations. The table lists sample location names and codes of sample locations. The code of a sample location is unique. These sample locations (for example: **Breast, Brain, Ren, Vena cerebralis, Ductus choleduchus**, etc.) have been defined by the hospital. An administrator or assistant can create, edit, or delete sample locations.

Sample location						
Name	Code					
Female, NOS (00/X0)		Edit Delete				
Musculus extremitatis superioris, NOS (1351)		Edit Delete				
Musculus flexor digitorum, NOS (1356)		Edit Delete				
Musculus dorsi, NOS (1360)	1360,	Edit Delete				
Musculus pectoralis major, NOS (1400)		Edit Delete				
Musculus intercostalis, NOS (1409)	1409,	Edit Delete				

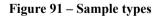
#### Figure 90 – Sample location

#### 4.2.7 Sample types

A sample type can determine the middle part of a case code, for example: 2019-**BIOP**-12345 (where BIOP stands for Biopsy, and HEM for Hematology) but a user can define a different format of case code as well. The name of a sample type is unique.

The supervisor doctor, doctor and assistant users are allowed to list the sample types. These sample types have been defined by hospital. An administrator or assistant can create, edit or delete sample types.



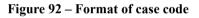


#### 4.2.8 Format of case code

The supervisor doctor, doctor and assistant users have access to the list of case code formats. Case codes have been defined by hospital and is responsible for determining the format. CaseManager<sup>™</sup> DX Software can be adapted to the format sent by the LIS. Only the administrator user can create and edit the format of case code.

If you edit the **Format of case code**, consider that the maximum length of the character string is 50 for **Sample type**, 10 for **Short format** and 2 for **Step values**.

Format of case code									
Sample type	Short format	Year	Current value	Separator 1	Separator 2	Year tag order	Sample type tag order	Counter tag	
Test									Edit Set year
DICOM									Edit Set year
cvb					-			3	Edit Set year
Test3			0		-		2	3	Edit Set year
Test2									Edit Set year
Utolso test	Utt	2022	500			1	2	3	Edit Set year



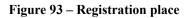
**NOTE:** Sample type 'HIS' can neither be edited or deleted.

**NOTE:** When starting a new year, in case of older format of case codes, the year can be modified by clicking **Set year.** After modification, the current value is set to the default value 1.

#### 4.2.9 Registration places

The supervisor doctor, doctor and assistant users have access to the list of registration places (location where the registration was performed). Registration places have been defined by the hospital. The name of a registration place is unique and is maximum 60 characters long. This list can be customized by the hospital, and CaseManager<sup>™</sup> DX Software can be adapted to the format sent by the LIS. Only the administrator user can create, edit and delete list records.

Registration place	
Name	
Biopsy lab	Edit Delete
Gross processing lab	Edit Delete
Office	Edit Delete
Prof XY lab	Edit Delete
Orange lab	Edit Delete



## 4.2.10 Sender institute

Sender institutes play important role in case registration. The supervisor doctor, doctor and assistant users have access to the list of sender institutes (institutes where the samples are received from). CaseManager<sup>™</sup> DX Software can be customized and adapted to use sender institute record sent by the LIS. All users are allowed to create, edit and delete sender institute records. The name and code of a sender institute are unique.

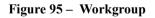
Sender institute						
Name	Code	Address	Phone number	E-mail	Fax	
						Edit Delete
		Test Address 2	+368452182	Test@Email.ch		Edit Delete
						Edit Delete
						Edit Delete
						Edit Delete
		Street Or Mailing Address City 4732 95	06301234567			Edit Delete
		Öv 3				Edit Delete
ORC.21.1-D_Sender-Name-3DHISTECH		Street Or Mailing Address City 4732 95	06301234567			Edit Delete
		SenderAddress_Öv_utca_3 SenderCity_Bu	00 36 1 467 56 00	integration@3dhistech.com	00 36 1 467 56 00	Edit Delete

#### Figure 94 – Sender institute

## 4.2.11 Workgroup

The supervisor doctor, doctor and assistant users have access to the list of workgroups. These workgroups determine the workgroup-related general folders and the folder management. The name of a workgroup is unique. Only the administrator user can create, edit and delete list records.

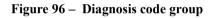




## 4.2.12 Diagnosis code groups

This list includes all the diagnosis code groups used in the system for each case. A normal user is only allowed to list code groups. Creating, editing and deletion of diagnosis code groups can be performed exclusively by administrator users. The name of a diagnosis code group is unique.

Diagnosis code groups	
	Name
SNOMED-M	Edit Delete
SNOMED-T	Edit Delete
ICD	Est Dete
1	Est Dette
letselcodes	Est Dete



## 4.2.13 Diagnosis code

Important!	
Before creating a diagnosis code, you must specify the diagnosis code group first.	

This list includes all the diagnosis codes used in the system for each case. Use **Filter** input field to search for a code in the group selected from the **Diagnosis code group** drop-down list. A diagnosis code is unique.

**NOTE:** When filtering diagnosis codes, only the first 100 hits are listed.

Diagnosis code			
Filter 82 Diagnosis code group SNOMED-M			
Code	Description	Diagnosis code group	
M-95820			Edit Delete
M-91823	Fibroblastic osteosarcoma	SNOMED-M	Edit Delete
M-93823			Edit Delete

#### Figure 97 – Diagnosis code

A normal user is only allowed to list codes. Creating, editing and deletion of diagnosis codes can be performed exclusively by administrator users.



If you delete a diagnosis group, the groups attached to the diagnosis group are also deleted.

## 4.2.14 Integration log

The logging of events and interactions between CaseManager<sup>™</sup> DX Software and the HIS/LIS is very important. This list displays events that have been logged in the previous day, but you can widen the time interval when searching for older logs (for example, you can set a two-week period or more). Logs are displayed in a page containing a maximum of 100 entries, and click **Next** to go to the following page.

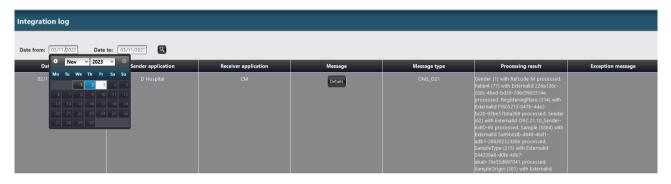


Figure 98 – Integration log

## 4.2.15 Default scan mode

On the **Default scan mode** panel, the user with permission from the administrator can set each setting of the scan mode as default for all slides handled by CaseManager<sup>™</sup> DX Software.

Default scan mo	de	
Edit		
Objective		
🐲 🚇 🚇		
Multilayer settings		
Mode	Number of layers	Motor step size (0.2 um)
📽 <mark>-</mark> 🔀 📃	2 +	<b>3</b>
Whole slide settings		
💶 Whole slide scannin	ig enabled	
Slide output format set	tings	
Output format		
🗱 MARE MARE 2000		
ICC profile		
ICC profile		
🗢 💽 🗟 🖉	6	
Color scheme	White point	Gamma
	D65 D50	22 23 24
Focus		
Adaptive focus setti	Dar	
	ligs	
Coarse range FOV	Dirt size FOV	Master range FOV
Coarse range FOV		Master range FOV
	Dirt size FOV	
- 20 +	Dirt size FOV	Z0 + TMA tissue count
20 + Master range margin	Dirt size FOV	TMA tissue count threshold

Figure 99 – Default scan mode

See the default scan mode options listed below:

#### • Objective

- Not set
- 20x
- 40x

#### Multilayer settings

- Mode
  - Not set
  - Single layer Select this option if you want to scan a single layer of the slide.
  - Extended focus The software selects the sharpest image from each focus level for each image field, and combines them into one single image. Therefore, those parts that were blurry in auto/manual focus will also be sharp. This method guarantees the maximum depth of sharpness; however, it reduces digitization speed.
  - Z-Stack With this method, separate layers are created and stored, and can be opened with ClinicalViewer<sup>™</sup>. The Z-Stack slide contains the extended focus layer.
- Number of layers Both for Extended focus and Z-Stack scanning methods, you can determine the desired number of focus levels with the Number of layers slider. The current focus value is the starting point. If you set 5 for example, one current, two focus levels above and below FOVs are captured. Therefore, it is advised to choose an odd number for the focus levels.
- $\circ$   $\,$  Motor step size It determines the spacing between focus levels. One step is around 0.2  $\,$   $\mu m.$

**NOTE:** The **Number of layers** and **Motor step size** settings only take effect if either the Z-Stack or Extended focus multilayer settings option is selected.

- Whole slide settings (three-state slide switch)
  - Whole slide scanning enabled If activated, the system performs whole slide scanning.
     Note that the scanning area can be modified in the related scanner software.
    - Disable
    - Scanner's default

- Enable
- Output format
  - Not set
  - MRXS
  - DICOM
- ICC profile
  - ICC profile Select an applicable preset color profile to be used for Brightfield scanning. Settings according to the profile has effect on the color set, color temperature, and gamma value of the scanned image.
    - Not set
    - Calibrated linear Color scheme is defined by calibration (Gamma value is not included).
    - sRGB standard Color scheme is defined by calibration (standard Gamma value -2.2is applied).
    - sRGB microscope like Color scheme is defined by calibration (standard Gamma value / White Point: D50).
    - Legacy –
    - Custom The parameters are freely customizable.
  - Color scheme
    - Not set
    - Calibrated The scheme is defined by the color calibration slide.
    - v119 legacy
    - Raw The color information of the recorded raw image is applied.
  - White point
    - Not set
    - D65 Color temperature according to a standard illuminant D65 white point value is applied (6500K / daylight).

- D50 Color temperature according to a standard illuminant D50 white point value is applied (5000K / horizontal daylight)
- Gamma
  - Not set
  - Standard A value of 2.2 is used.
  - Medium A value of 1.8 is used.
  - Off A value of 1.0 is used.
- Focus (three-state slide switch)
  - Adaptive focus settings
    - Disable
    - Scanner's default
    - Enable
  - Coarse range FOV
  - Dirt size FOV
  - Master range FOV
  - Master range margin
  - Smear coverage threshold
  - TMA tissue count threshold
- Slide label settings
  - Barcode orientation
    - Automatic
    - Normal
    - Upside down

## 4.2.16 Scan mode rules

On the **Scan mode rules** panel, the user with permission from the administrator can define a specific scan mode rule and overwrite the default scan mode.

A newly created scan mode rule applies only to slides registered in the system after saving the new rule. Similarly, if a scan mode rule is deleted, it applies only to slides registered in the system after deletion.

Slides registered between the creation and deletion of a scan mode rule keep the properties of the given rule even after the rule was deleted. It is not possible to override a scan mode rule for one or more specific slides in the system.



Figure 100 – Scan mode rules

To create a scan mode rule, click **Create**. The new rule is then added to the end of the queue (bottom of screen).

Click 🖉 to edit the scan mode rule. The **Edit scan mode rule** window is displayed.

Edit Scan mode rule					×
Name Rule with HE					Î
Staining = V HE	Ť	ICC profile	Custom	× ×	
		Color scheme	Raw	× ×	
		White point	D65	<ul><li>✓ ×</li></ul>	
		Gamma	Medium	××	
<				>	
If: Section barcode	] 🕂	Set: Objective	v	•	J
				ſ	ок

#### Figure 101 – Edit scan mode rule

Enter the name of the rule in the **Name** text field. In the first column displayed below **Name**, set the **If** value in the drop-down menu.

You can select from the following **If** values: Section barcode, Section code, Section note, Block code, Block note, Block part 1, Block part 2, Block part 3, Sample code, Sample barcode, Sample code middle part, Sample urgent, Sample origin code, Sample origin, Sample type, Patient gender, Patient note, Staining group, Staining, Container note.

Click 🙂 to add the search condition to the queue. Select category from the drop-down menu displayed and enter the value.

In the second column, set the **Set** value in the drop-down menu.

You can select from the following **Set** values: Objective, Apply output format of the slide, Output format, Mode, Number of layers, Motor step size, Whole slide scanning enabled, ICC profile, Color scheme, White point, Gamma, Adaptive focus settings, Barcode orientation.

Click 🙂 to add the search condition to the queue. Select category from the drop-down menu displayed. Click **OK** to approve the changes.

You can delete a Scan mode rule by clicking 🔽. Click **Save** to save the changes.

# 5 Teleconsultation

The teleconsultation (TC) feature allows CaseManager<sup>™</sup> DX Software users the following functionalities:

- Create, start and join live TC sessions.
- Share patient and registration data
- Use reporting tools
- Share macroscopic images overtaken from the LIS
- View digital slides simultaneously
- Chat with other attendees

To access teleconsultation and display its main screen, click the 🔤 button.

On this screen, the user can **Start**, **Finish** or **Join** an existing TC session by clicking on the respective buttons.

Also here it is possible to create and schedule a new teleconsultation by clicking on the 🕒 button.

Teleconsultations				•		
asd	Start date 30/06/2023 14:14 Duration 30 minutes	L	R.	ž		🔆 Join 🕨 Start
Tes	Start date 07/07/2023 13:42 Duration 2 hours	2		Z	Ť	🔆 Join 🕨 Start
Test	Start date 14/08/2023 10:17 Duration 30 minutes	1	R.	2	Ť	🐉 Join 🕨 Start
Test contact tc	Start date 18/09/2023 13:39 Duration 2 hours	2		ž		🔆 Join 🕨 Start
Consultation of contacts	Start date 19/09/2023 09:08 Duration 30 minutes	2		ž	Ť	🔆 Join 🕨 Start
New tc	Start date 19/09/2023 09:20 Duration 1 hour	2		ž	Ť	🔆 Join 🕨 Start
Ьvс	Start date 22/09/2023 14:31 Duration 1 hour	1		ž	Ť	🔆 Join 🕨 Start

Figure 102 – The main screen of teleconsultation

## 5.1 Create teleconsultation

By clicking the **button**, the **Create teleconsultations** panel is displayed.

e*	Description	
emo teleconsultation	Enter here some description	
Start date         Planned ending         Duration*           Now         9/1/2021 11:48 AM         9/1/2021 12:18 PM         30 minutes           %         Change patient data to anonymized data during teleconsultation         30		
lect case		Select participant
amela Johnes (8765443) Patient's name or SSN 💙		Dr John Smith MD PhD - js@bhc.com (Contacts)
Cases and slides		Users Groups Contacts Participants
cases and slides     I     Case details       2019-BIOP-17361     I     I		Participants Prof. Dr. Drake Johns (Users)
■ 2019-BIOP-173611 ✓		Dr Thomas Johnson MD (Contacts)
2019-BIOP-173611     2019-BIOP-173611     2019-BIOP-173611     2019-BIOP-173611     2019-BIOP-173611     2019-BIOP-300     U     2019-BIOP-300     U     2019-BIOP-3001	505 0A2 300 000	Dr John Smith MD PhD (Contacts)
📼 2019-BIOP-3001 🗸 🛃 Macroscopic images		
2019-BIOP-3001		

Figure 103 – Create teleconsultation

Write in the **Title** of the TC to the related text box. Select **Start date** in the calendar by clicking into its box.

s	tart d	late				F	Plann	ed ending	
	10/1	8/202	1 12:	06 P.M		(	10/1	8/2021 2:0	5 PM
at	€ 1	¢.	00	tobe	r- 2	2021 -	•		Itation
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	12:00	
								12:15	
78.		4				8		12:30	
	10	11	12	13	14	15	16	12:45	
1	17	18	19	20	21	22	23	13:00	
5	24	25	26	27	28	29	30	13:15	ils
	31				4			-	it's inforn
P-1	1.5	-HF						Patient's	name

Figure 104 – Teleconsultation calendar

Select **Duration** from the drop-down menu. The **Planned ending** box is filled in automatically.

Start date	Planned ending	Duration*	
10/18/2021 12:06 PM	10/18/2021 2:06 PM	2 hours	~

Figure 105 – Time details of teleconsultation

If you don't want that the participants can see patient data during the TC session, mark the **Change** patient data to anonymized data during teleconsultation checkbox.

Optionally, enter some description of the case to the **Description** text field.

By entering an ID or keyword in the **Select case** search input field, you can search in the following categories within the selected folder:

**NOTE**: For a successful search, exact values must be specified.

Select case*		
123456789	Patient's name or SSN	~
John Doe (123456789)		

#### Figure 106 – Select case

- Case code is a code for identifying the case. This code can be either a code as an identifier used and sent by LIS or added to CaseManager™ DX Software, generated by the institute.
- **Case barcode**: If case code is stored in barcode, the software automatically searches for the case in the database based on the recorded barcode string (that is visible in the text box).
- **Sample original barcode**: Case identifier used in other systems, search is performed based on barcode stored in Hospital Information and Laboratory Information Systems.
- **Patient's name or SSN**: Search for cases stored in the database that can be identified by the patient's name or SSN.

To activate search criteria, press **Enter** on the keyboard. The search results are displayed on the **Cases** and slides panel.

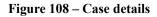
Cases and slides	Ĩ	Ī
2020-BIOP-1	Ť	^
2020-BIOP-1_I_5HE	<b>~</b>	
2020-BIOP-1_I_1HE	<b>~</b>	
2020-BIOP-1_I_2HE	<b>~</b>	
2020-BIOP-1_I_3HE	<b>~</b>	
2020-BIOP-1_I_4HE	~	
2020-BIOP-1_I_5-1HE	<b>~</b>	
2020-BIOP-1_II_1HE	~	
2020-BIOP-1_II_2HE	~	
💷 2020-BIOP-1_II_3HE	~	
2020-BIOP-1 II 4HF		~

Figure 107 – Cases and slides

Select a case or slide to display **Case details** in the middle panel of the **Create teleconsultations** panel.

Mark the checkbox next to the slide that you want to delete from the TC and click **1**. Click **1**. Click to delete all selected slides.

Case details	
Patient's information	ľ
Patient's name	John Doe
Insurance number	123456789
Patient's date of birth	9/19/1974
Patient's birth name	
Patient's gender	Male
Diagnosis codes	
Uigital slides	
<b>a</b> 1	
□ I - 2020-BIOP-1_L_5-1-	



Case details include the following information:

- Patient's information
- Diagnosis codes
- Digital slides
- Macroscopic images
- Snapshots
- Documents

You can mark and delete items on the Case details panel, too.

Select participants for the TC.

Select participant*	
Search	
🗹 Users 🗌 Groups 🔽 Contacts	
Participants	Ť
Hajdú Huba (Users)	T
Horváth Tibor (Users)	T
Wittmann Pali (Contacts)	Ť

Figure 109 – Select TC participant

Mark the checkboxes **Users**, **Groups** or **Contacts** depending on where you want to search for. Start typing any fraction of the name of the participant in the Search box to list related hits.

Select participant*	
b	
Horváth Tibor - tibor.horvath (Users)	
Kálmán Bianka - bianka.kalman (Users)	
Hajdú Huba - huba.hajdu (Users)	
Paulik Norbert - norbert.paulik (Users)	

Figure 110 – Searching for a TC participant

Select a participant to add to the list of **Participants**. To delete a participant, click and click to delete all.

**NOTE**: The TC contacts do not need to be CaseManager<sup>™</sup> DX Software users.

When all details of the TC are set, click **Save** in the bottom right corner of the **Create teleconsultations** panel. If you want to exit without saving, click **Cancel** in the bottom left corner.

## 5.2 The teleconsultation session

### 5.2.1 Host's side

When the teleconsultation is running, the host can see the screen below.

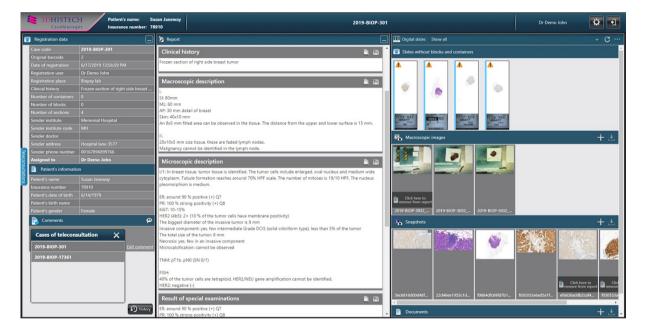


Figure 111 – Teleconsultation: host's screen

If more cases are included in the TC, the host can change case in the **Cases of teleconsultation** window. The host has the permission to edit the report items and open the slides of the TC case in ClinicalViewer<sup>™</sup>.

For more information on handling teleconsultation in ClinicalViewer<sup>™</sup>, see *ClinicalViewer<sup>™</sup> User's Guide*.

## 5.2.2 Participants's side

When the teleconsultation is running, the participant can see the screen below.

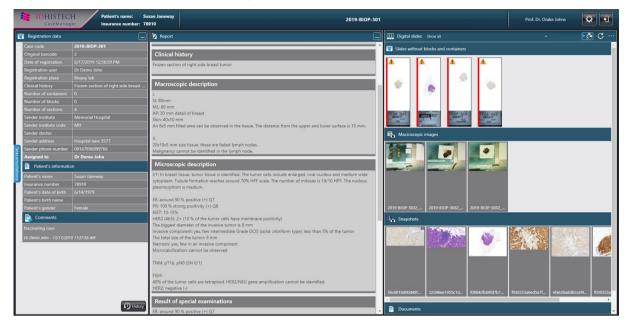


Figure 112 – Teleconsultation: participant's screen

The participant only has view rights on this screen, except the permission to join a ClinicalViewer<sup>™</sup> session by clicking the <sup>™</sup> icon.

For more information on participating a teleconsultation in ClinicalViewer<sup>M</sup>, see ClinicalVi