

# PMA.transfer 2.0

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*by Yassine Iddaoui*



## **PMA.transfer 2.0**

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# Table of Contents

<b>Part I About PMA.Transfer</b>	<b>5</b>
1 Who should read this .....	5
2 What's new in version 2.0.1 .....	5
3 Release history .....	5
<b>Part II Installation</b>	<b>6</b>
1 System requirements .....	6
2 Installation .....	6
<b>Part III Site Manager</b>	<b>7</b>
1 My Sites .....	8
2 Folders .....	9
3 Sites .....	9
4 Bookmarks .....	12
<b>Part IV Upload and download</b>	<b>13</b>
1 Initiating an upload .....	13
2 Monitoring an upload .....	13
3 Initiating a download .....	15
4 Monitoring a download .....	15
<b>Part V Menu bar &amp; Toolbar</b>	<b>18</b>
1 Menu bar .....	18
File .....	18
Edit .....	18
View .....	18
Transfer .....	19
Help .....	19
2 Toolbar .....	21
3 Connection bar & Logging text area .....	21
<b>Part VI Table view for local site</b>	<b>23</b>
1 Folders navigation tree .....	23
2 Create new folder .....	23
3 Menu button View .....	24
4 Context menu .....	25
5 Navigation .....	27

<b>Part VII</b>	<b>Table view for remote site</b>	<b>28</b>
1	Folders navigation tree .....	28
2	Create new folder .....	28
3	Menu button View .....	29
4	Context menu .....	30
5	Navigation .....	32
	<b>Index</b>	<b>0</b>

# 1 About PMA.Transfer

PMA.transfer is a slide transfer desktop application aimed to make slide transfer an easier process by remedying to a couple of frequent recurring problems (transfer failure, timeouts, Firewall issues, security, integrity check...)

It's available free of charge, and offers a couple of benefits including :

- Knowledge of what a slide actually is: you select a .mrxs file; the application automatically figures out to include the other files in the process.
- Runs over HTTP(S): no need to punch through firewalls.
- Error recovery in case the network connection is interrupted.
- Integrity check to verify the transferred files are not corrupt.

## 1.1 Who should read this

Any end user that wants to transfer slide between a local site (PMA.start) and a remote one (PMA.core or My Pathomation).

## 1.2 What's new in version 2.0.1

General improvements :

- Log file menu item to open directly the current log file in addition to log files' location
- Added file format to "inspect slide" interface

Bug fixes :

- VSI slides' transfer issue
- Dealing with leading/trailing spaces in host & username text fields and trailing slashes for host as well

## 1.3 Release history

Version	Revision	Released
PMA.transfer 2.0.0	50	May 2019
PMA.transfer 2.0.1	55	July 2019

## 2 Installation



PMA.transfer relies on the presence of PMA.start, which can be downloaded free of charge through <http://free.pathomation.com>

### 2.1 System requirements

- Windows 7 or later
- Java runtime environment (JRE) 1.8 update 60 or later

### 2.2 Installation

- Extract file PMA.transfer.zip into a destination a folder
- Navigate to destination folder

Name	Date modified	Type	Size
 PMA.transfer-2.0.1.55.exe	7/9/2019 1:39 AM	Application	9,430 KB
 PMA.transfer.ini	3/17/2019 10:11 PM	Configuration settings	1 KB

- Double click on file PMA.transfer-2.0.1.x.exe

The Zip file is optionally shipped with a PMA.transfer.ini file containing a preconfigured connection data, it's loaded automatically when the app is launched.

### 3 Site Manager

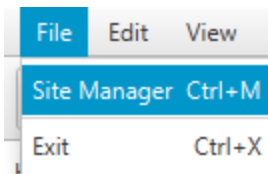
The site manager aims to make it easy for end users to store connection data related to the different Pathomation server instances (PMA.core, Pathomation cloud...).

It can be initiated via :

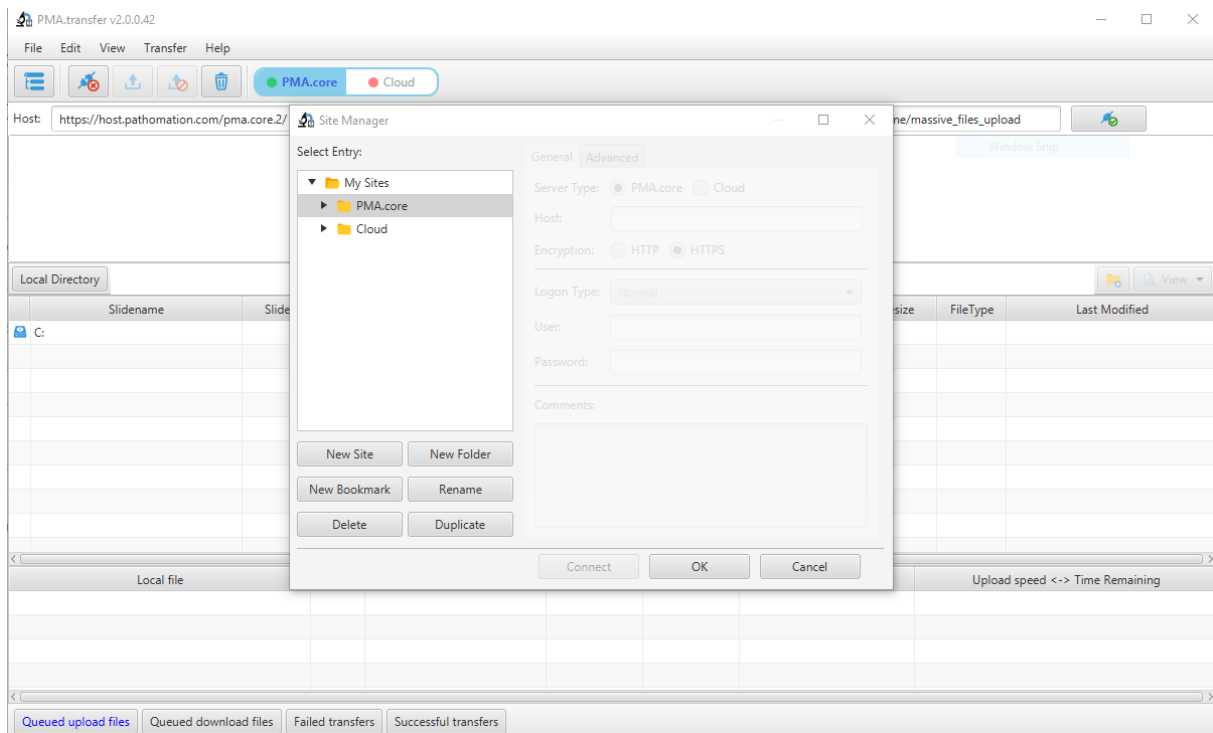
- click on button “Site Manager” (first to the left on the icons toolbar)



- click on Menu item “Site Manager” on Menu “File”.













- Keyboard shortcut “Ctrl + M”.



It enables end users to organize connection data into folders, sites, bookmarks in addition to a couple of others functionalities (rename, duplicate...)

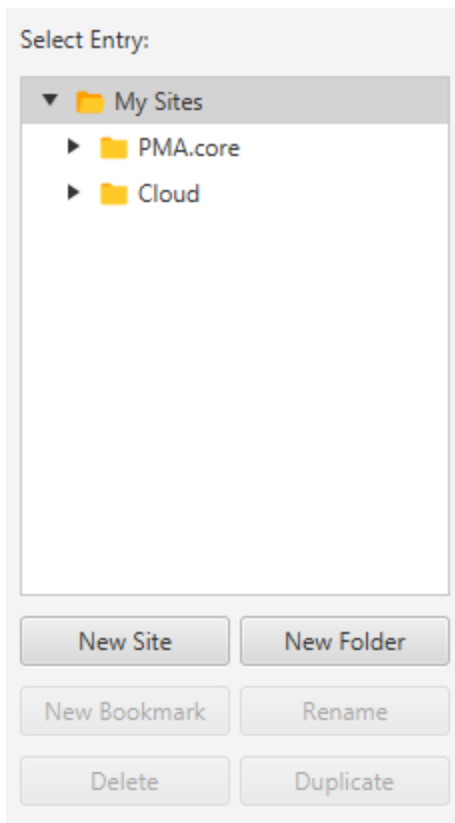
The data generated by the site manager is stored inside file “PMA.Transfer\_data.json” on user’s default Windows directory :

Name	Date modified	Type	Size
 Favorites	12/14/2018 11:42 ...	File folder	
 Links	12/14/2018 11:42 ...	File folder	
 Music	12/14/2018 11:42 ...	File folder	
 OneDrive	1/2/2019 1:40 AM	File folder	
 Pictures	12/14/2018 11:42 ...	File folder	
 Saved Games	12/14/2018 11:42 ...	File folder	
 Searches	12/14/2018 11:42 ...	File folder	
 TwixTel	3/22/2018 12:45 PM	File folder	
 Videos	12/14/2018 11:42 ...	File folder	
 PMA.Transfer_data.json	1/7/2019 1:30 AM	JSON File	1 KB

The content of this file should not be modified!

## 3.1 My Sites

The node “My Sites” is the root of the site manager tree, it cannot be deleted or renamed.

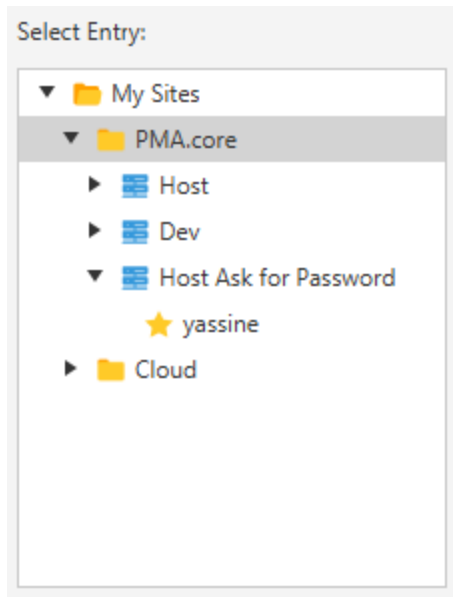


- Click on button “New Site” creates a new site inside “My Sites”.
- Click on button “New Folder” creates a new folder inside “My Sites”.



## 3.2 Folders

Folders organize “sites” (and consequently “Bookmarks”) functionally to give end users better visibility :



- Click on button “New Site” creates a new site inside selected folder.
- Click on button “New Folder” creates a new folder inside selected folder.
- Click on button “Rename” makes the Tree item editable so the folder’s name can be modified (to confirm the modifications press “Enter” key, to cancel them press “ESC”).
- Click on button “Delete” deletes selected folder (and consequently everything inside is removed, which include sub-folders, sites and bookmarks!)

## 3.3 Sites

Sites define connection details to connect to a server instance (which can be PMA.core or cloud instance)

The screenshot shows the 'Site Manager' dialog box with the 'General' tab selected. The 'Select Entry:' tree on the left shows a hierarchy: 'My Sites' (expanded) -> 'PMA.core' (expanded) -> 'Host' (selected). Below the tree are buttons for 'New Site', 'New Folder', 'New Bookmark', 'Rename', 'Delete', and 'Duplicate'. The right pane contains configuration fields: 'Server Type' (radio buttons for 'PMA.core' and 'Cloud', with 'PMA.core' selected), 'Host' (text input), 'Encryption' (radio buttons for 'HTTP' and 'HTTPS', with 'HTTPS' selected), 'Logon Type' (dropdown menu set to 'Normal'), 'User' (text input), 'Password' (text input), and 'Comments' (text area). At the bottom are 'Connect', 'OK', and 'Cancel' buttons.

Site Manager

Select Entry:

- My Sites
  - PMA.core
    - Host
    - Dev
    - Host Ask for Password
    - Cloud

New Site New Folder

New Bookmark Rename

Delete Duplicate

General Advanced

Server Type: ☒ PMA.core ☐ Cloud

Host:

Encryption: ☐ HTTP ☒ HTTPS

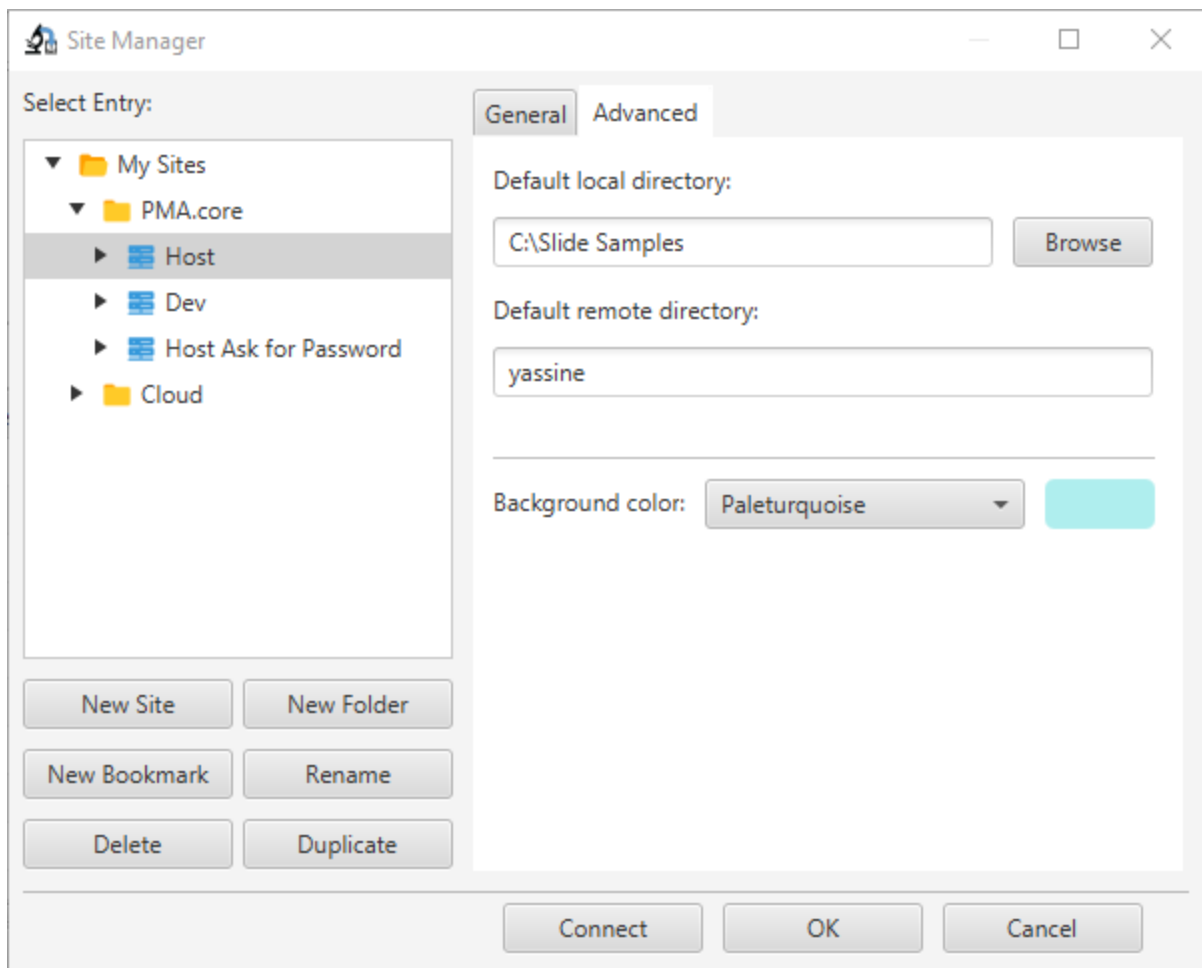
Logon Type: Normal

User:

Password:

Comments:

Connect OK Cancel



"General" & "Advanced" tabs gather the connection details for the selected site.

If "Cloud" Radio button is selected, host Text field and Encryption Radio are deactivated and switched automatically to values "host.pathomation.com", "" and "HTTPS" respectively.

For "Advanced" tab, end users can define the default local and remote directories to automatically navigate to when a successful connection is established.

It's also possible to define a background color (that will fill the logging text area) to make it visually easier for end users to identify which host are they connected to.

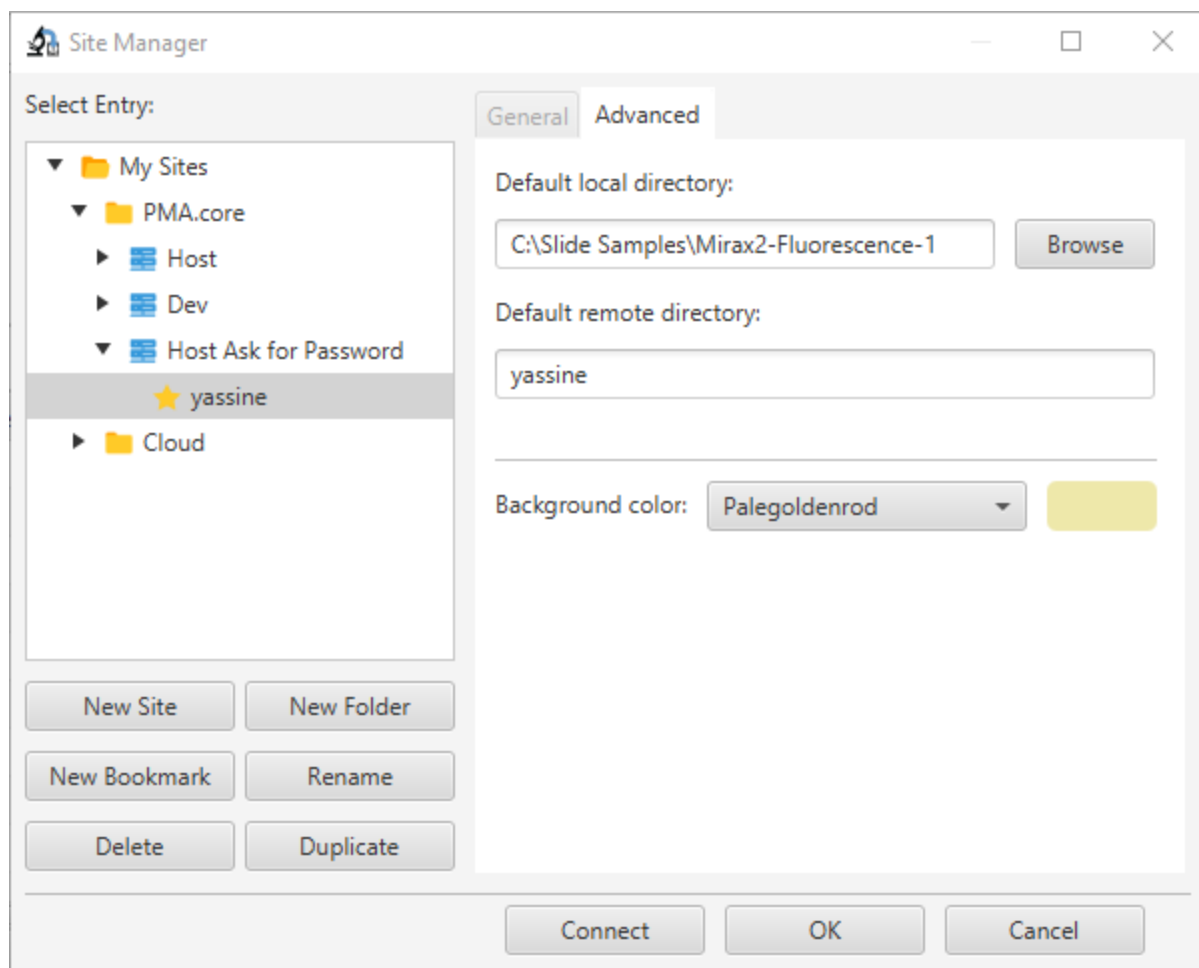
- Click on button "New Site" creates a new site within the same parent folder the selected site belongs to.
- Click on button "New Folder" creates a new folder within the same parent folder the selected site belongs to.
- Click on button "New Bookmark" creates a new bookmark in a new child node inside the selected site.
- Click on button "Rename" makes the Tree item editable so the site's name can be modified (to confirm the modifications press "Enter" key, to cancel them press "ESC").
- Click on button "Delete" deletes selected site (and consequently everything inside is removed, which includes bookmarks!)
- Click on button "Duplicate" copies recursively the selected site (which includes related "bookmarks") in a new node within the same parent folder it belongs to.

Once the end user is done with the modifications, he can either click on button “OK” to save them or button “Cancel” to discard them. It’s worth adding that if the selected node is a site or a bookmark, it’s possible to click on button “Connect” to initiate a connection and store the modifications all together.

### 3.4 Bookmarks

Since it’s possible to have multiple slide folders on a local HDD and access multiple slide folders on server side (either PMA.core or Pathomation cloud), bookmarks offer the possibility to save favorite combinations of local/remote directories to navigate directly to once a connection is successfully initiated.

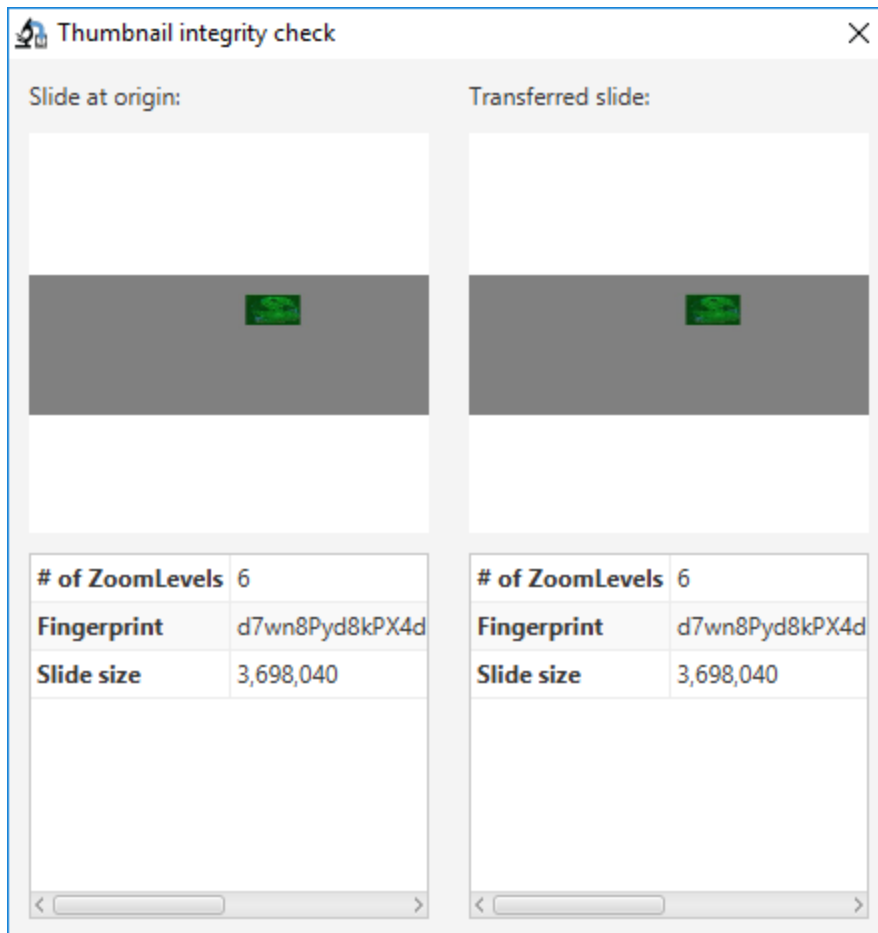
Each Bookmark belongs to a parent site and relies on it for connection data.



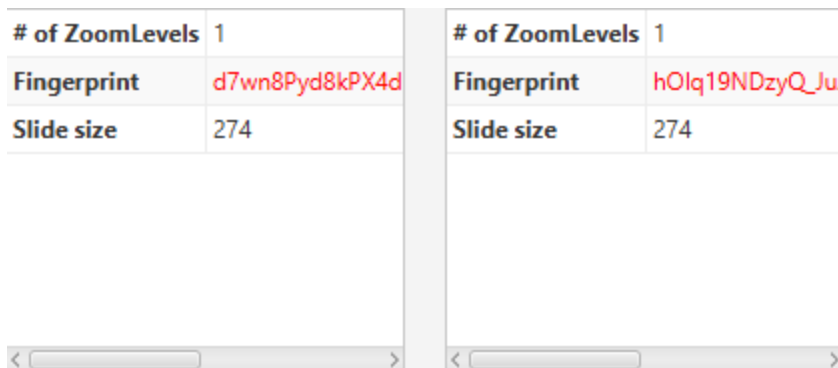
- Click on button “New Site” creates a new site within the parent folder of the site the selected bookmark belongs to.
- Click on button “New Folder” creates a new folder within the parent folder of the site the selected bookmark belongs to.
- Click on button “New Bookmark” creates a new bookmark next to the selected bookmark.
- Click on button “Rename” makes the Tree item editable so the bookmark’s name can be modified (to confirm the modifications press “Enter” key, to cancel them press “ESC”).
- Click on button “Delete” deletes selected bookmark.
- Click on button “Duplicate” copies the selected bookmark in a new node next to it.



Once the upload is complete, an integrity check windows pops up to compare both slides on local/remote sites.



In case the fingerprint doesn't match, a red font is used to mark this incoherence



Failed transfers :

By design, uploads on PMA.transfer aren't supposed to "fail", it keeps relaunching failed uploads indefinitely till a complete and successful upload is achieved. Therefore the uploads shown following a click on this button are uploads that were intentionally aborted via click on button "stop".

### Successful transfers :

Keeps track of successful transfers (either uploads or downloads), while giving also end users the possibility to call back the integrity check window (this can be done via mouse right click on the root of the slide).

Local file	Direction	Remote file	Size	Time
▼ C:\Slide Samples\Mirax2_SizeModified\Mirax2-Flu...	-->>	yassine/uploads_forced_to_fail/Mirax2-Fluorescence...	3,698,040	Tue Jan 29 23:06:28 CET 2019
C:\Slide Samples\Mirax2_SizeModified\Mirax2-...	-->>	yassine/u...	483,714	
C:\Slide Samples\Mirax2_SizeModified\Mirax2-...	-->>	yassine/uploads_forced_to_fail/Mirax2-Fluorescence...	483,714	
C:\Slide Samples\Mirax2_SizeModified\Mirax2-...	-->>	yassine/uploads_forced_to_fail/Mirax2-Fluorescence...	483,714	

Queued files Queued download files Failed transfers **Successful transfers (1)**

## 4.3 Initiating a download

There are two options to launch a download :

- Select a slide on local site (Table view to the left) then click on menu "Transfer" on the toolbar then select menu item "Download slide"
- Mouse right click inside the left table view borders, then select "Download slide to local folder" context menu item.

## 4.4 Monitoring a download

Local file	Direction	Remote file	Size	Status	Progress	Download speed <-> Time Remaining

Queued upload files **Queued download files** Failed transfers Successful transfers

The tree table view is intended to monitor download progress and keep track of successful/aborted downloads. The toolbar to the bottom permits to switch between queued uploads/downloads, successful and aborted ones.

### Queued files :

When a download is started, the slide (including the related files) are added to the view in a tree fashion. The progress bar, download speed and remaining time for each file and also the whole slide keep end user informed about the upload progress.

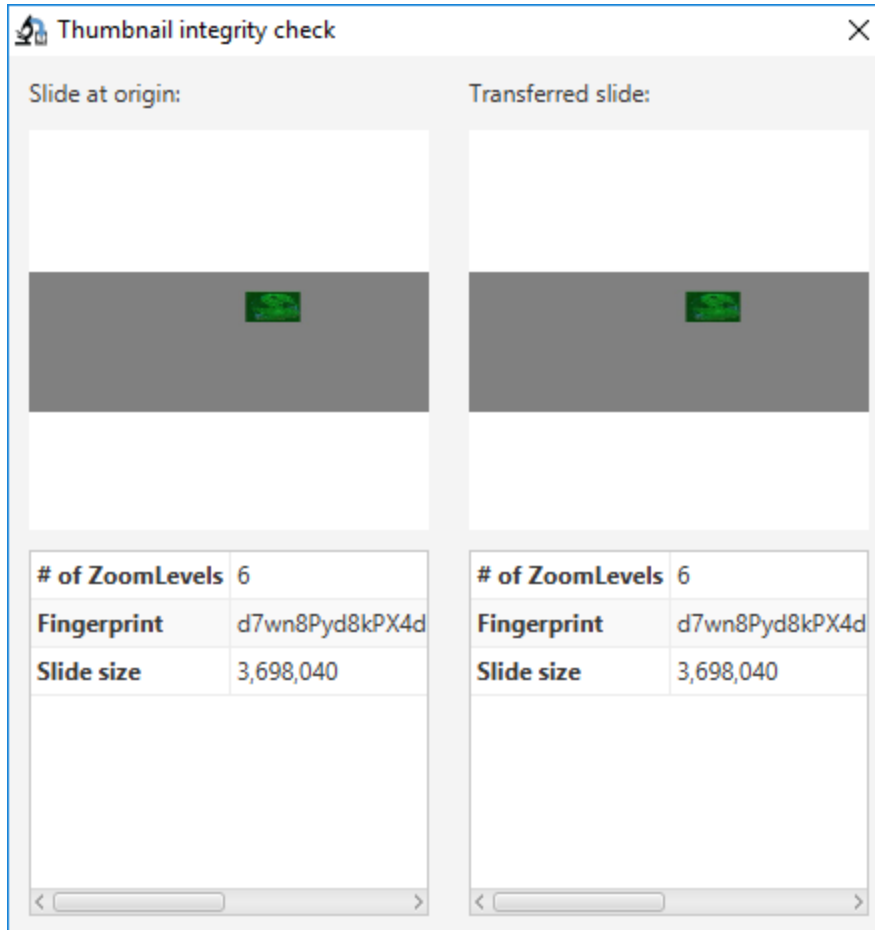
Local file	Direction	Remote file	Size	Status	Progress	Download speed <-> Time Remaining
▼ C:\Users\myidd\Desktop\Download test\Destinati...	< < <	yassine/massive_files_upload/...	3,698,040	Running...	<div></div>	1365.3 KB/s <-> 00:00:02
C:\Users\myidd\Desktop\Download test\Destinati...	< < <	yassine/massive_files_upload/...	483,714	Complete	<div></div>	
C:\Users\myidd\Desktop\Download test\Destinati...	< < <	yassine/massive_files_upload/...	483,714	Waiting...	<div></div>	
C:\Users\myidd\Desktop\Download test\Destinati...	< < <	yassine/massive_files_upload/...	483,714		<div></div>	

Queued upload files **Queued download files** Failed transfers Successful transfers (2)

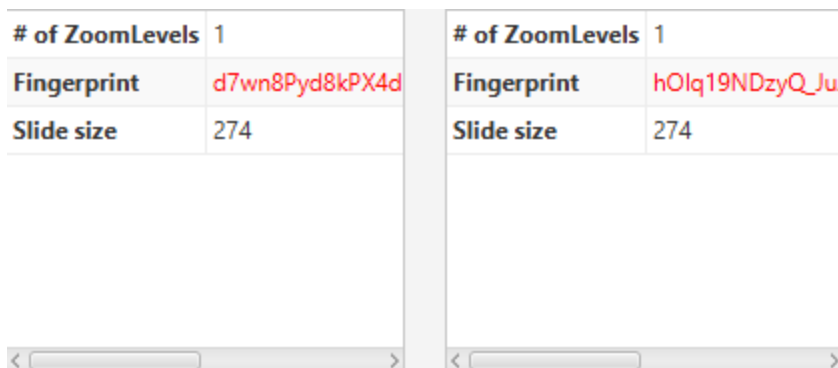
It's worth adding :

- For multi-file slides the files are sorted by size in descendant order to give end users the best user experience
- When the internet connection is lost, the status switches to “stalling...” till the connection is established again, then it switches back to “Running...” and the download resumes

Once the download is complete, an integrity check windows pops up to compare both slides on local/remote sites.



In case the fingerprint doesn't match, a red font is used to mark this incoherence





### Failed transfers :

By design, downloads on PMA.transfer aren't supposed to "fail", it keeps relaunching failed downloads indefinitely till a complete and successful download is achieved. Therefor the downloads shown following a click on this button are downloads that were intentionally aborted via click on button "stop".

### Successful transfers :

Keeps track of successful transfers (either uploads or downloads), while giving also end users the possibility to call back the integrity check window (this can be done via mouse right click on the root of the slide).

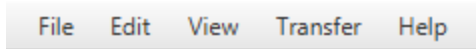
Local file	Direction	Remote file	Size	Time
▼ C:\Users\myidd\Desktop\Download test\Destinati...	< <--	yassine/massive_files_upload/Mirax2-Fluorescence-2...	3,698,040	Sun Mar 24 13:36:21 CET 2019
C:\Users\myidd\Desktop\Download test\Destin...	< <--	yassine/massive_files_u Integrity check rescence-2...	483,714	
C:\Users\myidd\Desktop\Download test\Destin...	< <--	yassine/massive_files_upload/Mirax2-Fluorescence-2/...	483,714	
C:\Users\myidd\Desktop\Download test\Destin...	< <--	yassine/massive_files_upload/Mirax2-Fluorescence-2/...	483,714	

Queued upload files Queued download files Failed transfers Successful transfers (3)

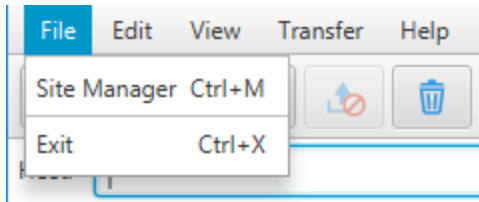
## 5 Menu bar & Toolbar

### 5.1 Menu bar

Composed of five menu items : “File”, “Edit”, “View”, “Transfer”, “Help”

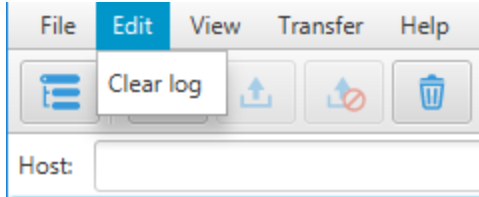


#### 5.1.1 File



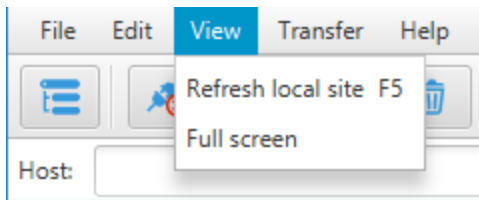
- Click on “Site Manager” launches Site manager window
- Click on “Exit”, shuts down PMA.Transfer

#### 5.1.2 Edit



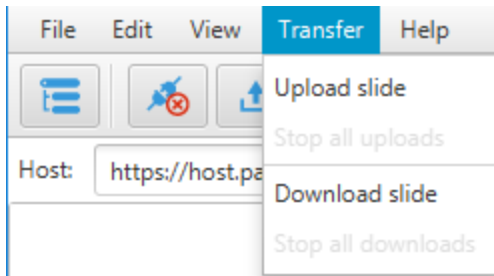
- Click on “Clear log”, clears logging messages in the text area below connection text fields

#### 5.1.3 View



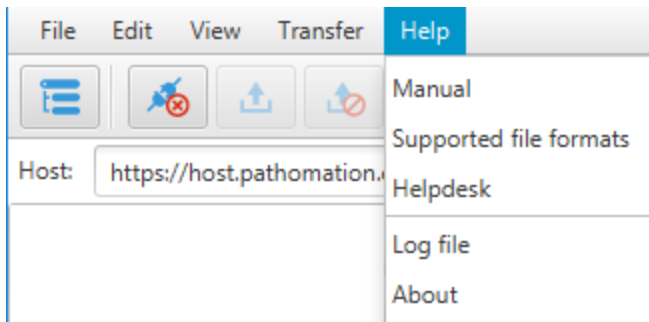
- Click on “Refresh local site”, refreshes the table view to the left related to content on end user’s local computer.
- Click on “Full screen” switches to full screen display.

### 5.1.4 Transfer



- Click on “upload slide” : Enabled when a slide on local HDD is selected, it initiates an upload to the remote site PMA.transfer is actually connected to (a couple of checks are operated before an upload can be started : duplicate slide name, slide already being uploaded, no connection...)
- Click on “Stop all uploads” : Enabled when there are active uploads running, it aborts all current running uploads.
- Click on "Download slide" : Enabled when a slide on remote site is selected, it initiates a download to the selected destination on local site (a couple of checks are operated before a download can be started : creation of destination folders, duplicate slide name, slide already being downloaded, no connection...)
- Click on “Stop all downloads” : Enabled when there are active downloads running, it aborts all current running downloads.


### 5.1.5 Help



- Click on “Manual” downloads latest version of PMA.transfer manual.
- Click on "Supported file formats" loads a table view of the supported file formats by PMA.transfer.

vendor	extension	compression	brighfield	fluo	zstack
TIFF	.tif, .tiff	JPEG, JPEG2000, LZW, Deflate, Raw, RLE	✓		
JPEG	.jpeg, .jpg	JPEG	✓		
JPEG 2000	.jp2	JPEG2000	✓		
PNG	.png	PNG	✓		
Olympus VSI	.vsi	lossless JPEG, JPEG, Raw	✓	✓	
Olympus WebView	.xml	JPEG	✓		
Ventana / Roche BIF	.bif	JPEG	✓		✓
Hamamatsu VMS	.vms	JPEG	✓		
Hamamatsu NDPI	.ndpi	JPEG	✓	✓	✓
Hamamatsu NDPIS (Image Set)	.ndpis	JPEG	✓	✓	✓
Hamamatsu DICOM	.dcm	JPEG, JPEG2000	✓		
Huron Technologies	.tif	JPEG	✓		
3DHistech MRXS	.mrxs	JPEG, PNG, BMP	✓	✓	✓
Aperio / Leica SVS	.svs	JPEG, JPEG2000	✓	✓	✓
Aperio / Leica AFI (Image Set)	.afi	JPEG, JPEG2000	✓	✓	✓
Aperio / Leica CWS	.cws	JPEG	✓		

- Click on "Helpdesk" redirects to a web interface to create a support ticket.


Guest User | [Sign In](#)

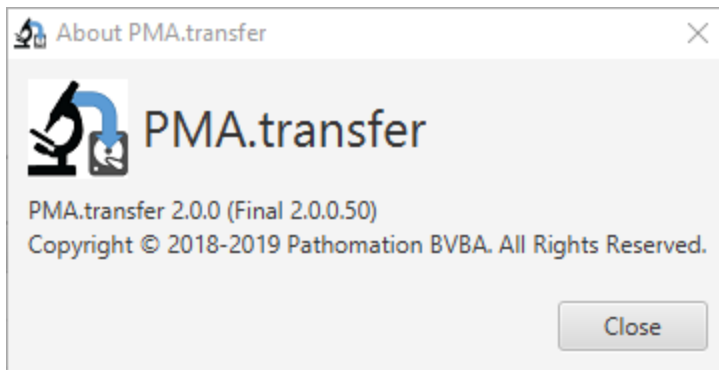
[Support Center Home](#)
[Open a New Ticket](#)
[Check Ticket Status](#)

### Welcome to the Support Center

In order to streamline support requests and better serve you, we utilize a support ticket system. Every support request is assigned a unique ticket number which you can use to track the progress and responses online. For your reference we provide complete archives and history of all your support requests. A valid email address is required to submit a ticket.

[Open a New Ticket](#)
[Check Ticket Status](#)

- Click on "Log file" opens up the current log file in notepad in addition to log files's location
- Click on "About" pops up an interface regarding general information about PMA.transfer



## 5.2 Toolbar



From left to right :

- Site Manager : launches site manager window
- Disconnect : disconnect from current session, if no connection is already established an alert dialog pops up for notification.
- Start upload : Enabled when a slide on local HDD is selected, it initiates an upload to the remote site PMA.transfer is actually connected to (a couple of checks are operated before an upload can be started : duplicate slide name, slide already being uploaded, no connection...)
- Stop upload : Enabled when there are active uploads running, it aborts all current running uploads.
- Clear log : Clears logging messages in the text area below connection text fields
- Switch Mode : To switch between a PMA.core server and Pathomation cloud (it operates the necessary disconnections if required)

## 5.3 Connection bar & Logging text area

For PMA.core :

Host:	<input type="text"/>	Username:	<input type="text"/>	Password:	<input type="text"/>	Folder:	<input type="text"/>	<input type="button" value="Connect"/>
status: Trying to connect...								
status: Resolving address of <input type="text"/>								
status: Connecting to <input type="text"/>								
status: Connection established...								
status: Loading directory on PMA.core...								
status: Directory successfully loaded...								

- Host : PMA.core instance to connect to, it should be in this form "http(s)://xxxxx/pma.core.2/"
- Username & Password : connection credentials
- Folder : Remote directory on server to navigate to if connection is successful

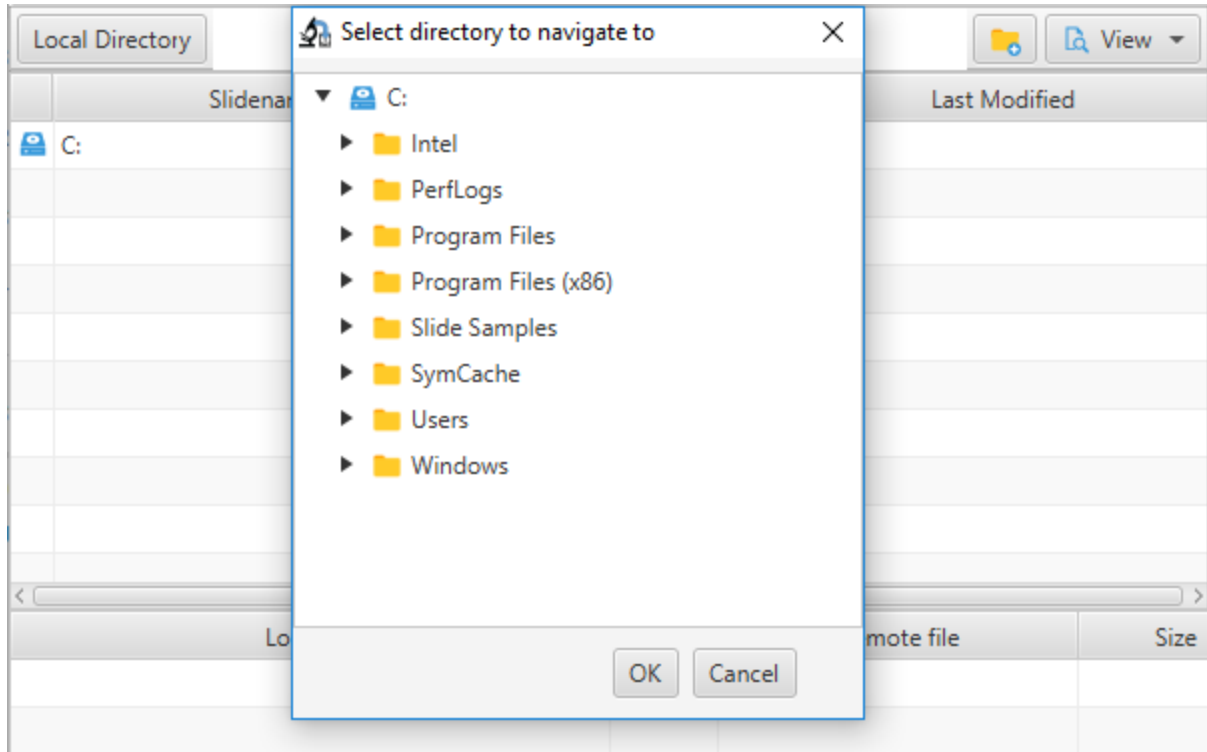
For My Pathomation :

Email:	<input type="text"/>	Password:	<input type="password"/>	Folder:	<input type="text"/>	<input type="button" value="Connect"/>
status: Trying to connect to the cloud...						
status: Resolving address of <input type="text"/>						
status: Connecting to <input type="text"/>						
status: Connection established...						
status: Loading user's directory on the cloud...						
status: Directory successfully loaded...						

- Email : The email address used to subscribe to Pathomation cloud.
- Password : Password received on inbox once the subscription & payment are validated.
- Folder : disabled text field, end user can only connect to its own subscription folder.

## 6 Table view for local site

### 6.1 Folders navigation tree

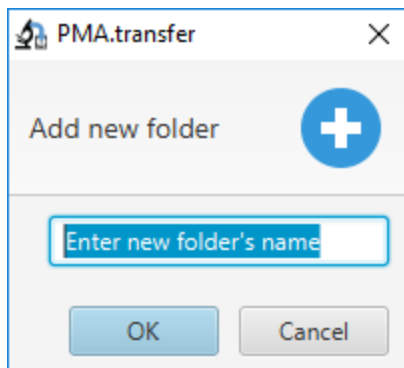


Click on button “Local Directory” opens a tree view window to select folder to navigate to. Action takes place by a click on button “OK”, while “cancel” simply cancels operation.

### 6.2 Create new folder

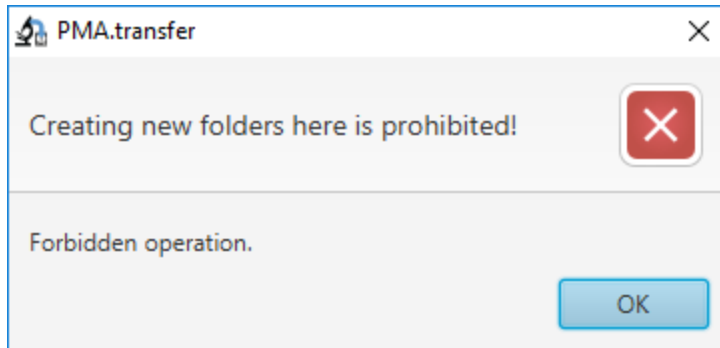


Click on this button pops up the following dialog window :

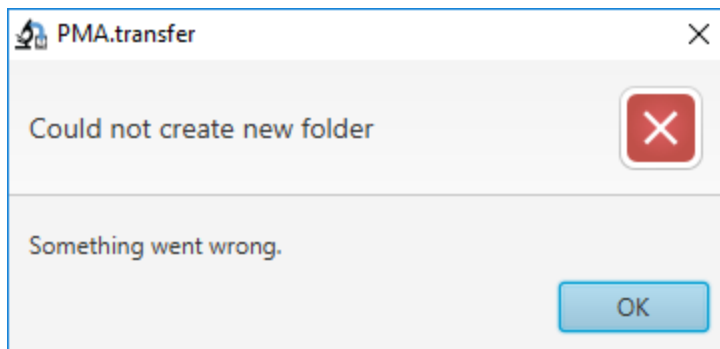


Name of the folder to be created should be added on the text field then a click on button “OK” for confirmation. If operation is successful, the folder is added and the table view is automatically refreshed to show the newly created folder, otherwise one of the following windows pops up :

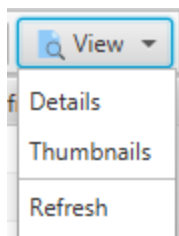
- If the operation is prohibited :



- If operation fails (duplicate folder name, access rights..) :



## 6.3 Menu button View



Composed of three menu items : Details, Thumbnails, Refresh

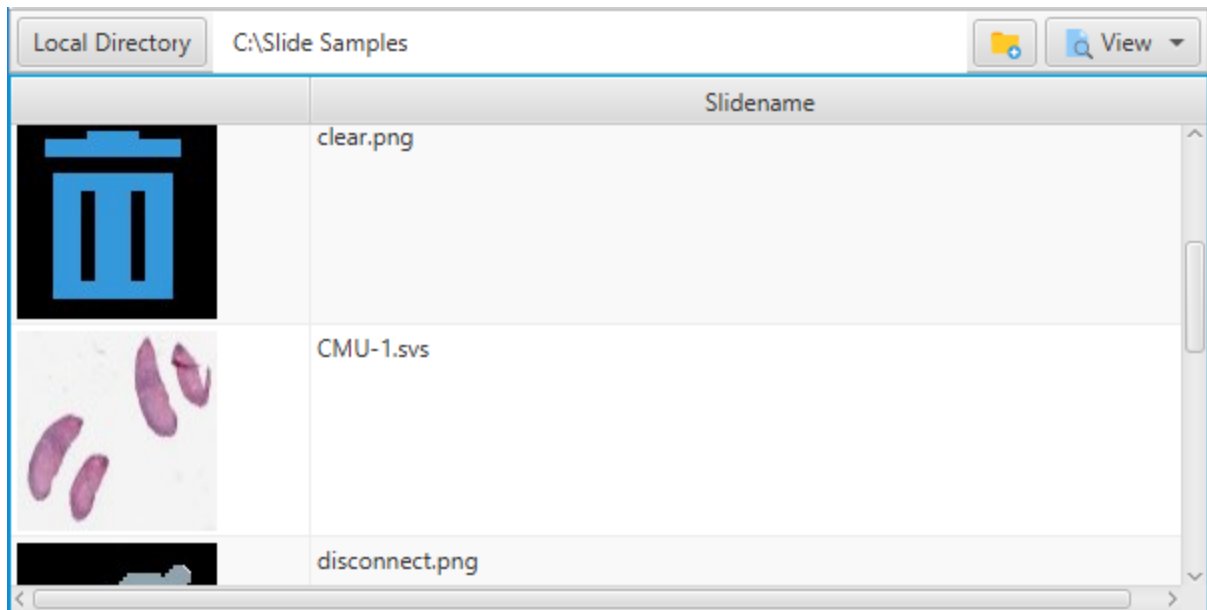
Details :

This is the default view mode for the table view, it includes an icon, “Slidename”, “Slidesize”, “FileType”, “Last Modified” columns

Thumbnails :



This view mode should be selected when it's needed to view the thumbnails of a slide (or a couple of slide). It includes an icon and a "Slidename" columns.



Refresh :

Refreshes the table view (it's worth noting that the table view, buttons "Add folder" and "View" get deactivated till the refresh is complete)

## 6.4 Context menu

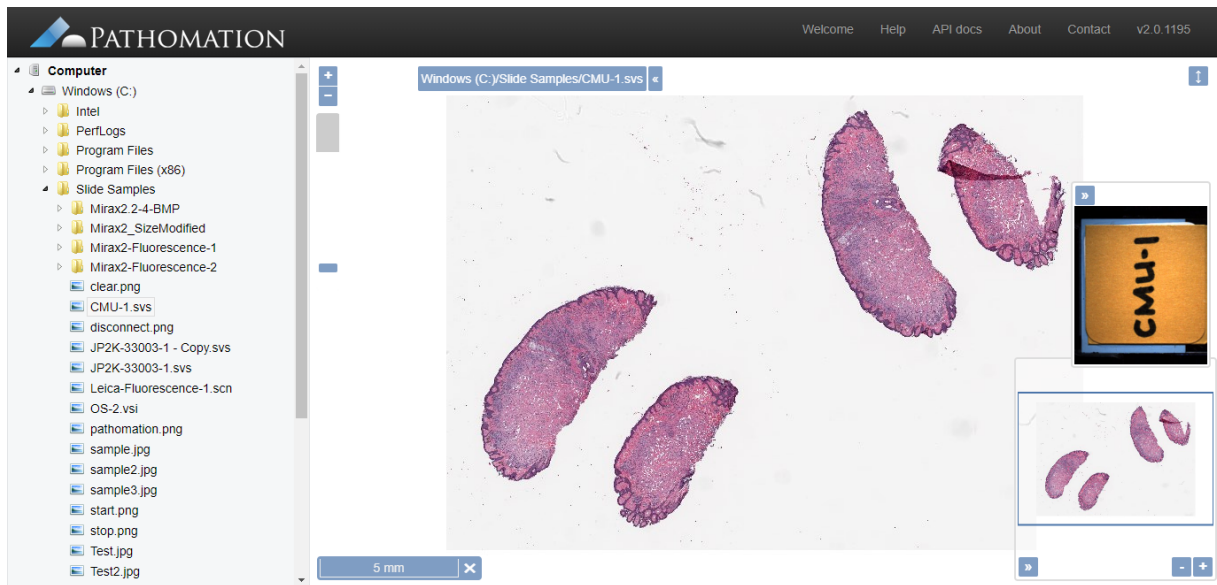
	Slidename	Slidesize	FileType	Last Modified
↑	..			
📁	Mirax2.2-4-BMP		File folder	
📁	Mirax2_SizeModified		File folder	
📁	Mirax2-Fluorescence-1		File folder	
📁	Mirax2-Fluorescence-2		File folder	
🖼️	clear.png	274	PNG File	Thu Jul 26 19:45:52 CEST 2018
🖼️	CMU-1.svs	177,552,579	SVS File	Mon Jul 23 08:22:01 CEST 2018
🖼️	disconnect.png	829	PNG File	Mon Jul 23 08:50 CEST 2018
🖼️	JP2K-33003-1 - Copy.svs	63,847,2	SVS File	Mon Jul 23 08:22 CET 2018
🖼️	JP2K-33003-1.svs	63,847,2	SVS File	Mon Jul 23 08:22 CET 2018

Open slide in PMA.start  
 Upload slide to remote site  
 Inspect slide      Ctrl+I

Initiated via mouse right click inside the table view borders, it's Composed of three menu items : "Open slide in PMA.start", "Upload slide to remote site", "inspect slide"

Open slide in PMA.start :

Opens the slide in PMA.start

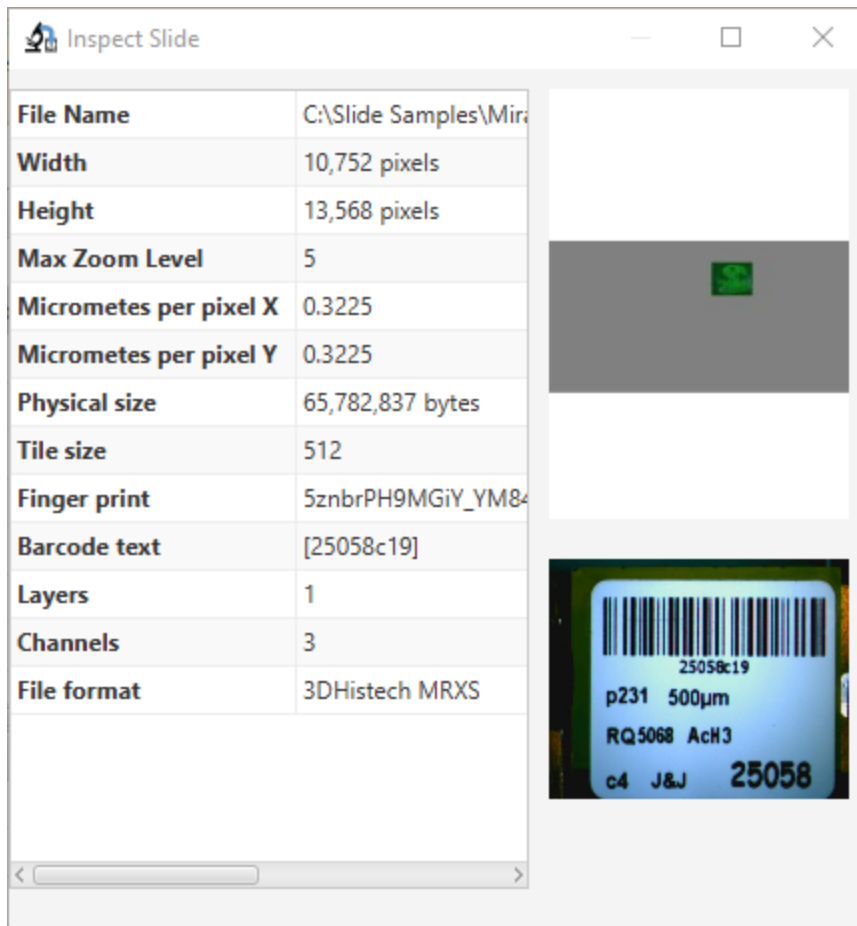


Upload slide to remote site :

Will be discussed in details later on this tutorial.


Inspect slide :

Information data regarding the slide (Thumbnail, fingerprint, size...)



## 6.5 Navigation

- Double click to navigate into a folder

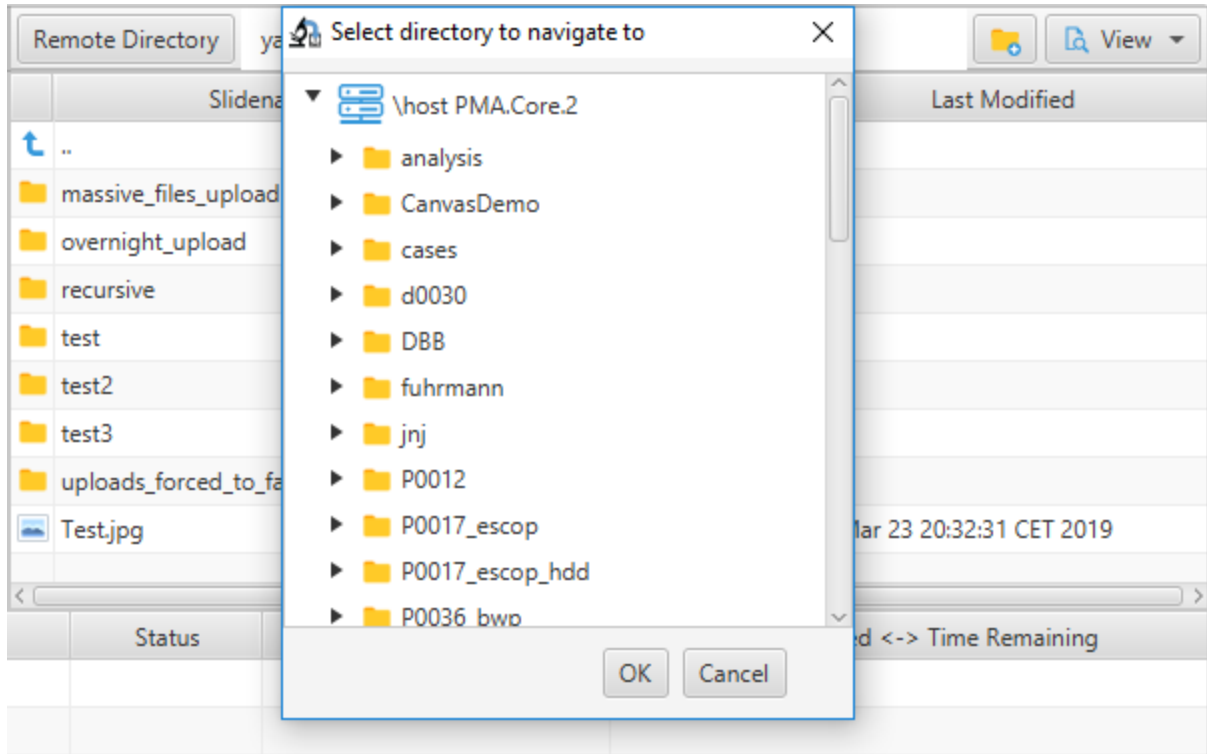
- Double click on this row  (to the top) to navigate to a parent folder

	Slidename ▲	Slidesize	FileType	Last Modified
--	-------------	-----------	----------	---------------

- Click on column headers to sort content in the table view by slides' name, slides' size, file type (folder or slide) and last modification date in ascendant or descendant order.

## 7 Table view for remote site

### 7.1 Folders navigation tree

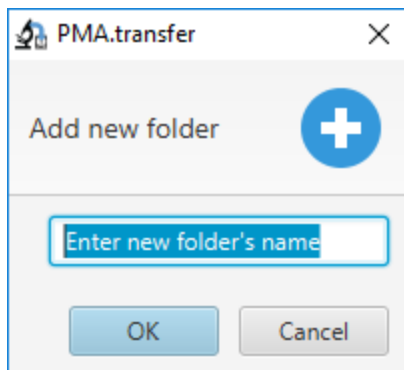


Click on button "Remote Directory" opens a tree view window to select folder to navigate to. Action takes places by a click on button "OK", while "cancel" simply cancels operation.

### 7.2 Create new folder

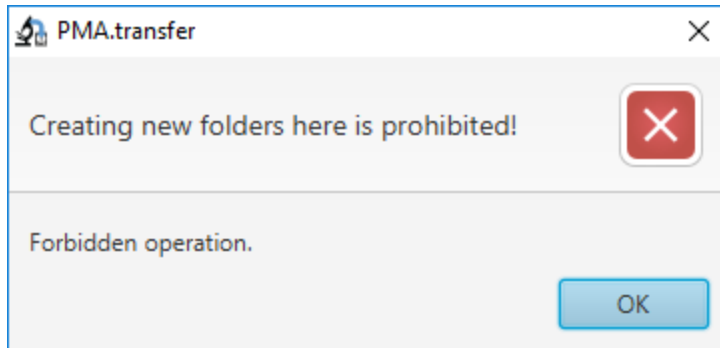


Click on this button pops up the following dialog window :

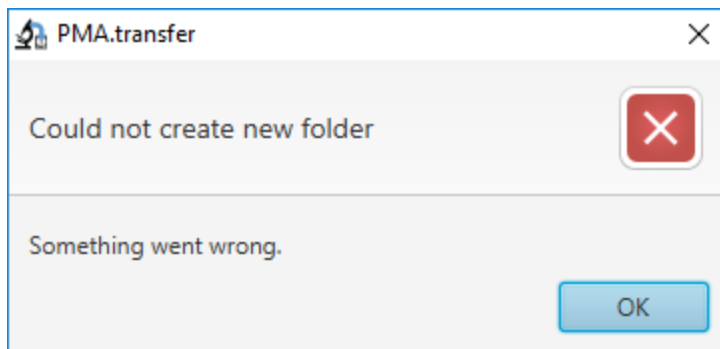


Name of the folder to be created should be added on the text field then a click on button “OK” for confirmation. If operation is successful, the folder is added and the table view is automatically refreshed to show the newly created folder, otherwise one of the following windows pops up :

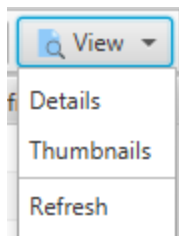
- If the operation is prohibited :



- If operation fails (duplicate folder name, access rights..) :



## 7.3 Menu button View



Composed of four menu items : Details, Thumbnails, Back to initial folder and Refresh.

Details :

This is the default view mode for the table view, it includes an icon, “Slidename”, “Slidesize”, “FileType”, “Last Modified” columns

Thumbnails :

This view mode should be selected when it's needed to view the thumbnails of a slide (or a couple of slide). It includes an icon and a "Slidename" columns.











Back to initial folder :

This can be very useful to get back to initial folder of connection following series of navigation to parent/children folders.

Refresh :

Refreshes the table view (it's worth noting that the table view, buttons "Add folder" and "View" get deactivated till the refresh is complete)

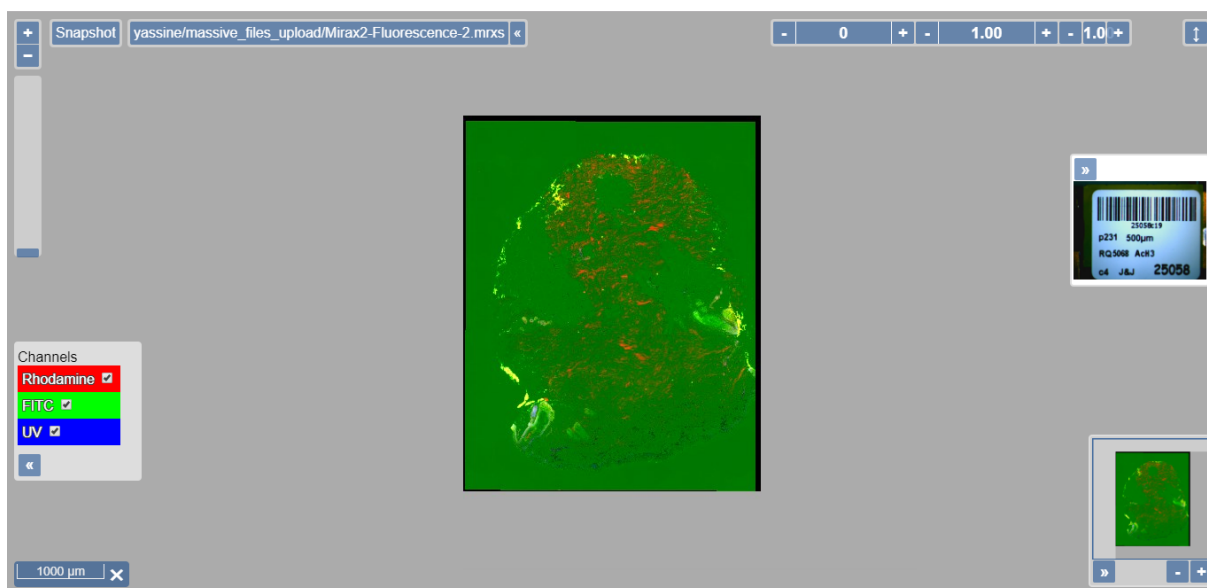
## 7.4 Context menu

	Slidename	Slidesize	FileType	Last Modified
	..			
	massive_files_upload		File folder	
	overnight_upload		File folder	
	uploads_forced_to_fail		File folder	
	clear.png	274	PNG File	Tue Jan 29 03:29:36 CET 2019
	sample.jpg	932,672	JPG File	Mon Jan 28 00:50:13 CET 2019
	sample2.jpg	932,672	<div> Open slide in PMA.core  Download slide to local folder  Inspect slide <span>Ctrl+S</span> </div>	03 CET 2019
	sample3.jpg	932,672		13 CET 2019
	start.png	268		14 CET 2019
	Test img	2 765 458	JPG File	Tue Jan 29 03:43:57 CET 2019

Initiated via mouse right click inside the table view borders, it's Composed of three menu items : "Open slide in PMA.core", "Download slide to local folder", "inspect slide"

Open slide in PMA.core :

Opens selected slide in PMA.core viewer

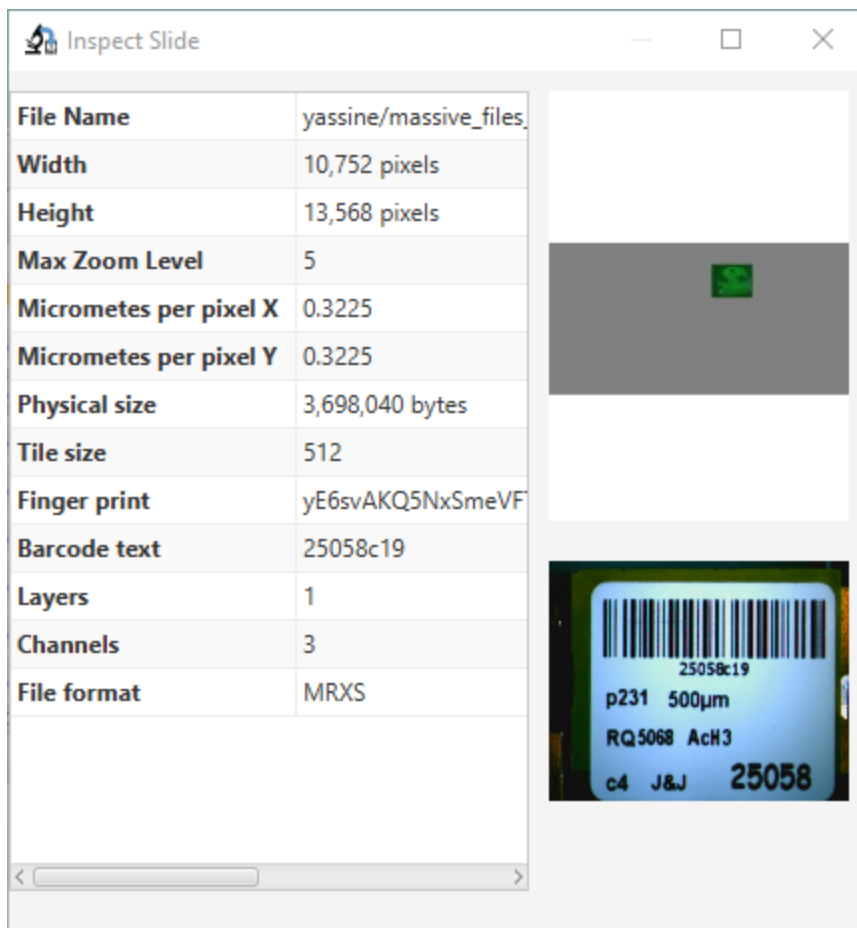


Download slide to local site :


Will be discussed in details later on this tutorial.

Inspect slide :

Information data regarding the slide (Thumbnail, barcode, fingerprint, size...)



## 7.5 Navigation

- Double click to navigate into a folder
- Double click on this row  (to the top) to navigate to a parent folder

	Slidename	Slidesize	FileType	Last Modified
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Click on column headers to sort content in the table view by slides' name, slides' size, file type (folder or slide) and last modification date in ascendant or descendant order.