

Root directories

In order for PMA.core to show content, you need to set up root directories. A root directory is a starting location from which your various whole slide images will be hosted.

The reason for working with root directories offers several advantages:

- You don't have to navigate through a complicated directory structure before reaching the files that you want to work with
- You can map multiple root directories to organize slides according to different purposes or workflows.
- Switch out different types of storage without the end-user knowing about it. When you move data from a conventional hard disk to cloud, you typically need to install a new piece of software (S3 browser, or an FTP explorer). With PMA.core, you just re-direct the root-directory to point to the updated location and you're done; the end-user remains unaffected

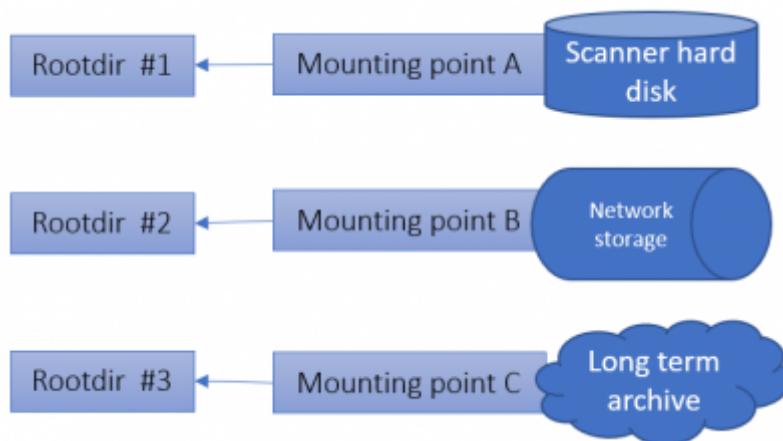


The concept of root directories is not dissimilar to mapped network drives in the Microsoft Windows operating system, where you map a map such as `\\myserver\dir\subdir\subsubdir\` to a (much simpler to remember and address) drive letter.

Mounting points

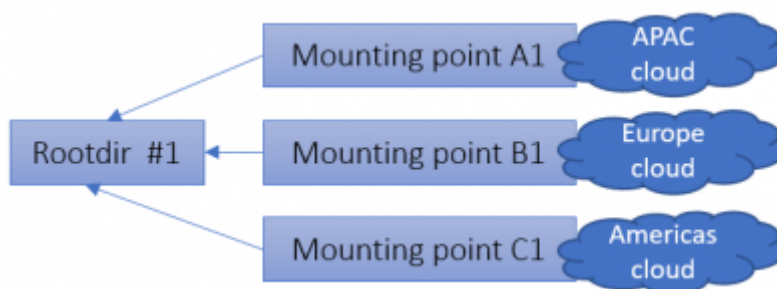
Since PMA.core 2, a root directory is defined by one or more mounting point. This was done to be able to facilitate [geo-replication scenarios](#).

A mouning point for a root directory may either be a local directory, a UNC share, Azure blob storage, FTP folder, or an Amazon S3 compatible storage.



A Mounting point is a further abstraction of the concept “where are my slides stored?”. While most users will end up having one mounting point per any one root directory, here are the different scenarios in which you could have multiple mounting points:

- [Geo replication](#)
- Automatic failover between different storage types. If a network resource is not available, a fallback could be offered to an alternative location (possibly with a reduced or older dataset)



In order to make root directories work, you need to attach at least one mounting point to it.

The mounting point of a root directory refers to the base directories where the system should look into for whole slide images. All the subdirectories of the root directories are exposed by the application and whole slide images that are discovered are advertised.

Root directories					
Home > Root directories					
Root directories Add					
Path	Alias	Offline	Path Exists		
E:\storagesesi	Local slides	☐	☒		
\\NAS\shared\esi	Shared slides	☐	☒		

Configuration

We have a [separate section](#) in this wiki that takes you through the different steps that you can take to [configure root directories and mounting points](#).

We also talk about the security precautions that you can take when configuring these.

Security

Root directories can be either [public or private](#).

Who's accessed what (either public or private) folder can be monitored via the Access log tab.

User 'Reference' Log

Summary Edit Mounting Points Audit trail Activity log View slides		
Root directory Access Log		
Time	Slide Name	User
07/02/2022 12:22:56	CMU-1.mms	PMA_UI_demo
07/02/2022 10:32:33	CMU-2.mms	PMA_UI_demo
07/02/2022 10:32:33	CMU-1.mms	PMA_UI_demo
07/02/2022 09:34:29	CMU-1.mms	PMA_UI_demo

Logging

Apart from manipulating root directories, monitoring their use is an important aspect of our software as well.

You can monitor logs for several kinds of activity:

Audit trail

The audit trail tab combines any operations that were performed on both root directory entries and underlying mounting point entries.

Audit trail for P0012

Home > Root directories > Audit trail

Summary Edit Mounting Points Audit trail Activity log View slides													
Audit trail													
EventID	EventID	EventDate	EventLog	EventID	Description	IP	Office	Public	Root				
0	41798	2/13/2022 12:38:28 PM	pma_admin	84.195.201.109	P0012 Initial review of information data for slide	21	False	False	0				
Showing 1 of 1 entries													
Mounting points audit trail													
EventID	EventID	EventDate	EventLog	EventID	Description	IP	Office	Public	Root				
0	20833	11/30/2021 2:56:42 PM	N/A	N/A	Initial review of information data for slide	8385665	no.central.5	1	p0012val0	21	Initial review		
0	8171	10/19/2021 10:13:59 AM	N/A	N/A	Initial review of information data for slide	8385665	no.central.5	1	p0012val0	21	Initial review		
0	13115	11/2/2021 1:45:37 PM	yyyy	81.82.195.9	N/A	N/A	N/A	N/A	N/A	21	N/A		

The presented information [21 CFR part 11 compliant](#).

Activity log

In addition to an audit trail, an activity log is available that chronologically tell you which user has

been accessing what slides in the root directory:

User 'P0012' Log		
Summary Edit Mounting Points Audit trail Activity log View slides		
Root directory Access Log		
Time	Slide Name	User
10/02/2022 11:30:00	11.10. Placenta à terme (104).svs	wordpress
10/02/2022 11:29:58	11.9. Placenta bij 7 - 8 weken zwangerschap (105).svs	wordpress
10/02/2022 11:29:56	11.8. Endometrium gravidaris (87).mrxs	wordpress
10/02/2022 11:29:54	11.7. Endometrium dag 25 (86).mrxs	wordpress
10/02/2022 11:29:52	11.6. Endometrium dag 17 (84).svs	wordpress
10/02/2022 11:29:50	11.5. Endometrium dag 10 (83).mrxs	wordpress
10/02/2022 11:29:48	11.4. Ovarium (kutsaal) (82).mrxs	wordpress

Elmah log

Integrity check

If you suspect certain slides in a particular root directory are corrupt, you can run an integrity check on a particular folder by going to

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Permanent link:

<https://docs.pathomation.com/pma.core/2.0.1/doku.php?id=rootdir&rev=1644583680>

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