

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

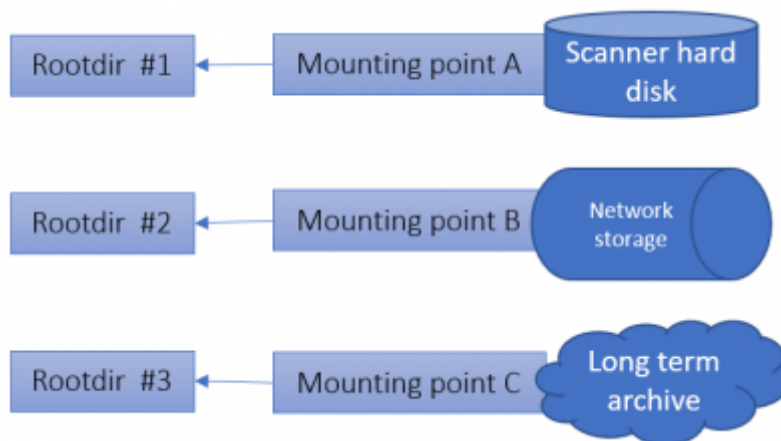


The concept of root directories is not dissimilar to mapped network drives in the Microsoft Windows operating system, where you map a map such as `\\myserver\dir\subdir\subsubdir\` to a (much simpler to remember and address) drive letter.

Mounting points

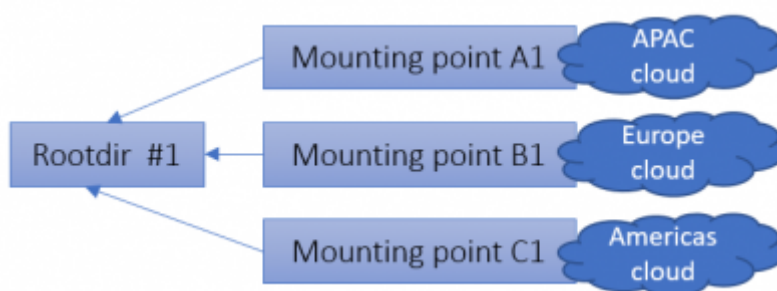
Since PMA.core 2, a root directory is defined by one or more mounting point. This was done to be able to facilitate [geo-replication scenarios](#).

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.

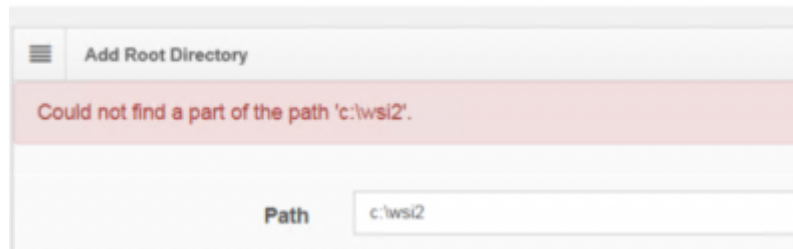
Root directories				
Home > Root directories				
Root directories Add				
Path	Alias	Offline	Path Exists	
E:\storages\esi	Local slides	☐	☒	Edit Delete
\\NAS\shared\esi	Shared slides	☐	☒	Edit Delete

The next section 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.

Start hosting your slides

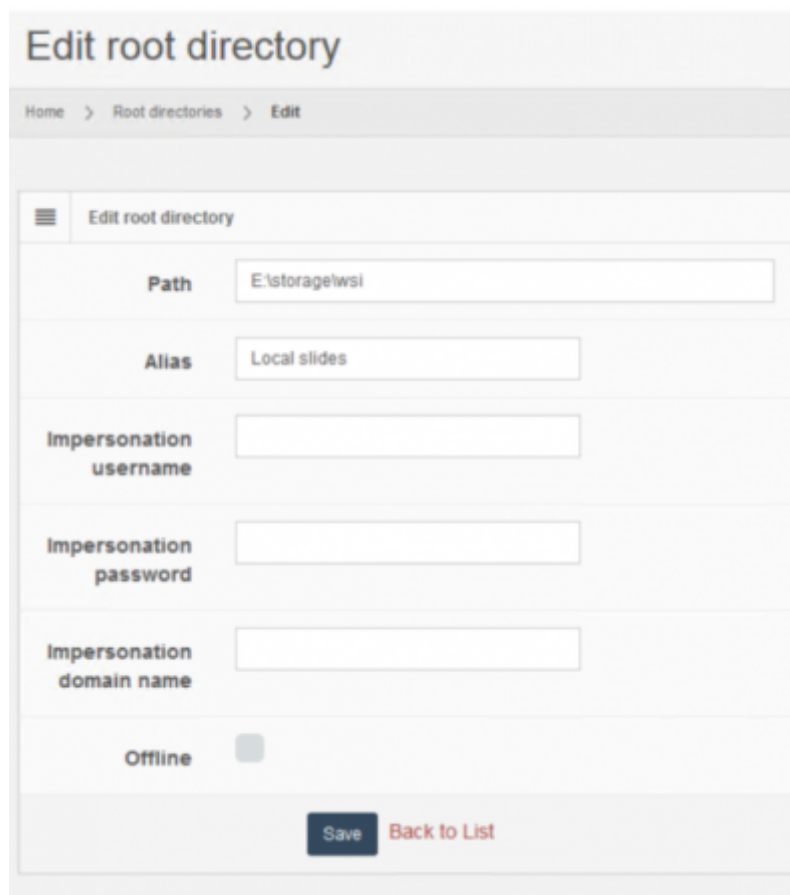
This section allows the addition of new directories as well as the editing and deletion of existing ones.

The path of a directory must be an absolute path accessible by the host computer. Should the path not exist, an error message is shown:



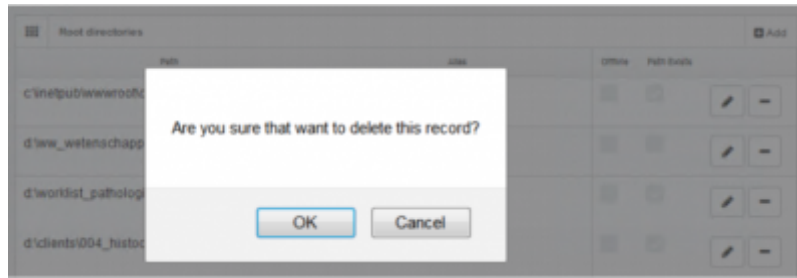
The screenshot shows a web form titled "Add Root Directory". Below the title, there is a red error message: "Could not find a part of the path 'c:\wsi2'". At the bottom of the form, there is a label "Path" followed by a text input field containing the value "c:\wsi2".

You can edit already existing root directories by clicking on the pencil behind each entry in the overview table:



The screenshot shows a web form titled "Edit root directory". The breadcrumb navigation at the top reads "Home > Root directories > Edit". Below the title, there is a sub-header "Edit root directory". The form contains several input fields: "Path" with the value "E:\storage\wsi", "Alias" with the value "Local slides", "Impersonation username", "Impersonation password", and "Impersonation domain name". There is also a checkbox labeled "Offline" which is currently unchecked. At the bottom of the form, there are two buttons: "Save" and "Back to List".

Similarly, you may delete root directories by clicking on the delete icon behind each entry. A confirmation prompt at this point will give you one last chance to reconsider:



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