

“How To” Guide



Scan To Folder On MAC OS
Created by Ricoh Dealer Services

RICOH
imagine. change.



Topics Covered

- Date & Time setting on the MFP
- Shared folder setting on the Mac
- SMB signing on the Mac
- Authentication method on the MFP





Date & Time Setting on the MFP

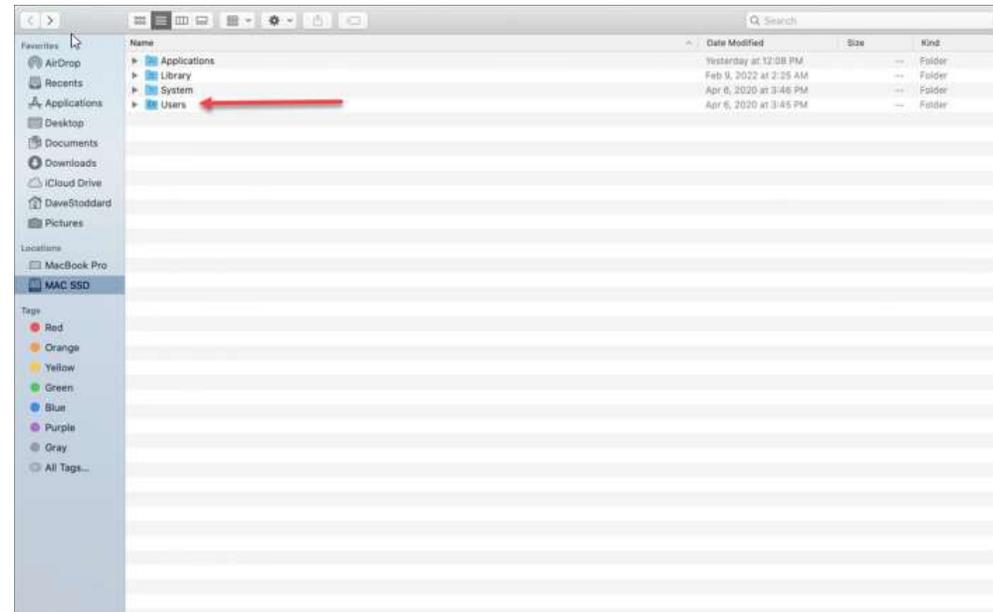
The MFP time needs to coincide with the time that is set on the Mac in consideration of the time zone. If the time on the MFP and the Mac are different by more than two hours, Scan to SMB will fail. Make sure the SP 5302-002 (Set Time/Time Difference on the MFP) has the correct time zone.





Creating A Shared Folder

[Double Click] Macintosh HD



[Double Click] on Users

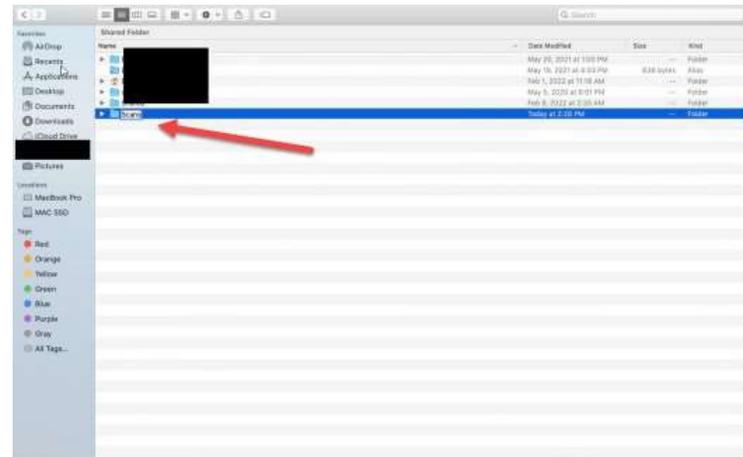


Creating A Shared Folder

From the Finder
Select **[File]**
Select **[New Folder]**



Name your new folder **[scans]**



Shared Folder Setting on the Mac

Regarding the shared folder on the Mac, please check the following settings:

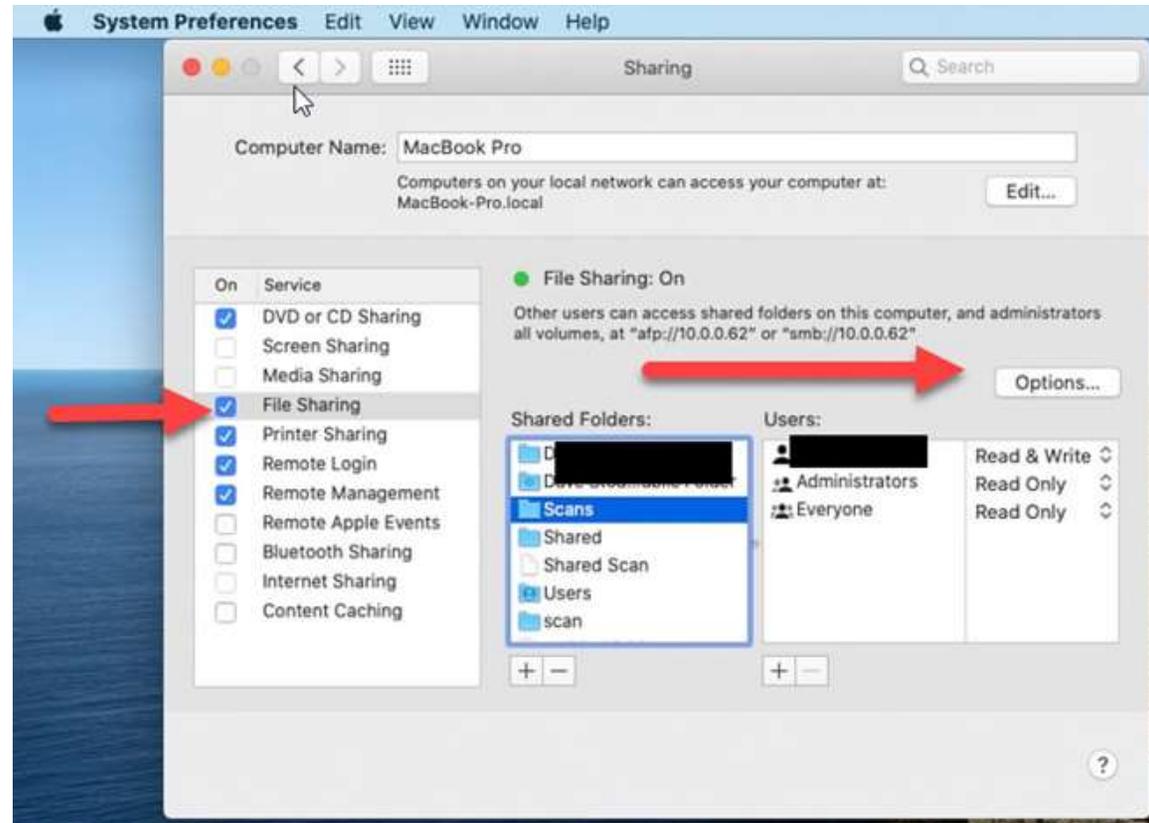
- 1) Click on **Apple** Icon (Title Menu Bar Upper Left)
- 2) Select [**System Preferences**] > [**Sharing**].



Scan to Folder – Mac OS

Check the **[File Sharing]** Box

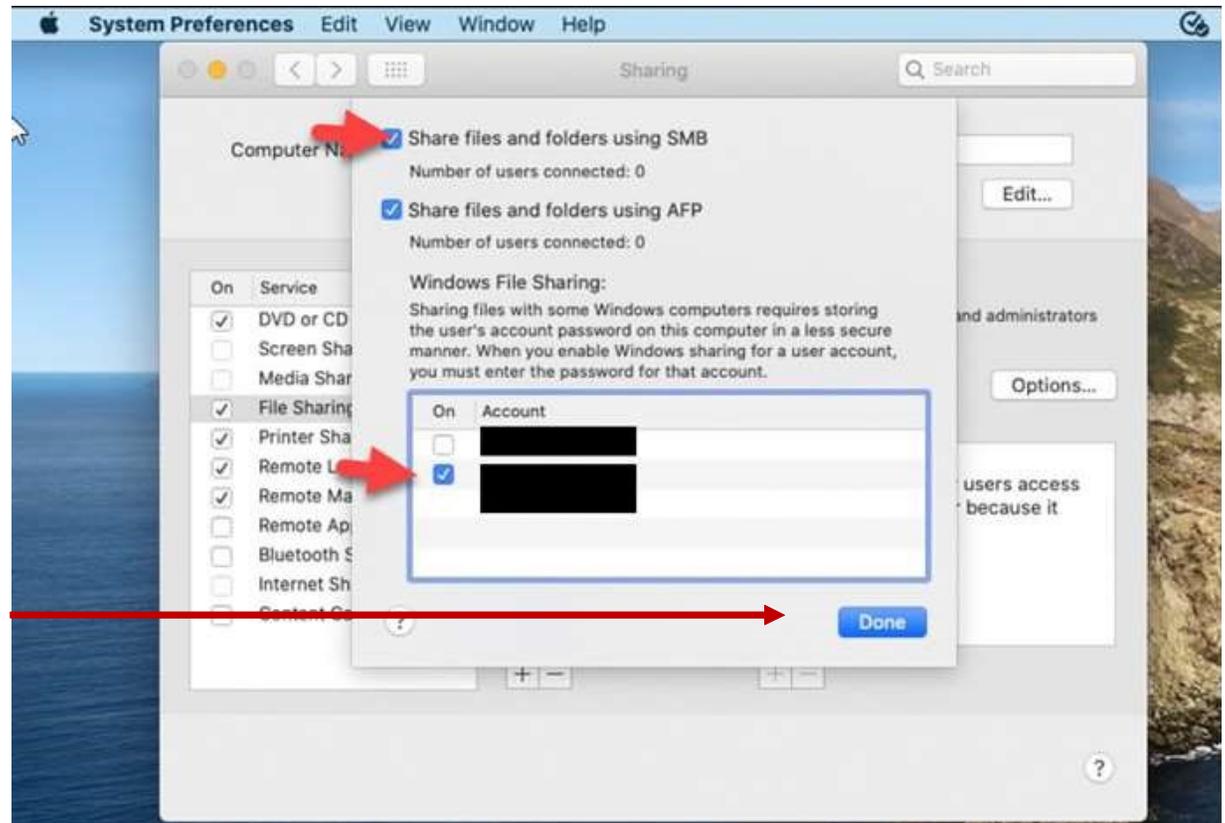
Select **[Options]**



Scan to Folder – Mac OS

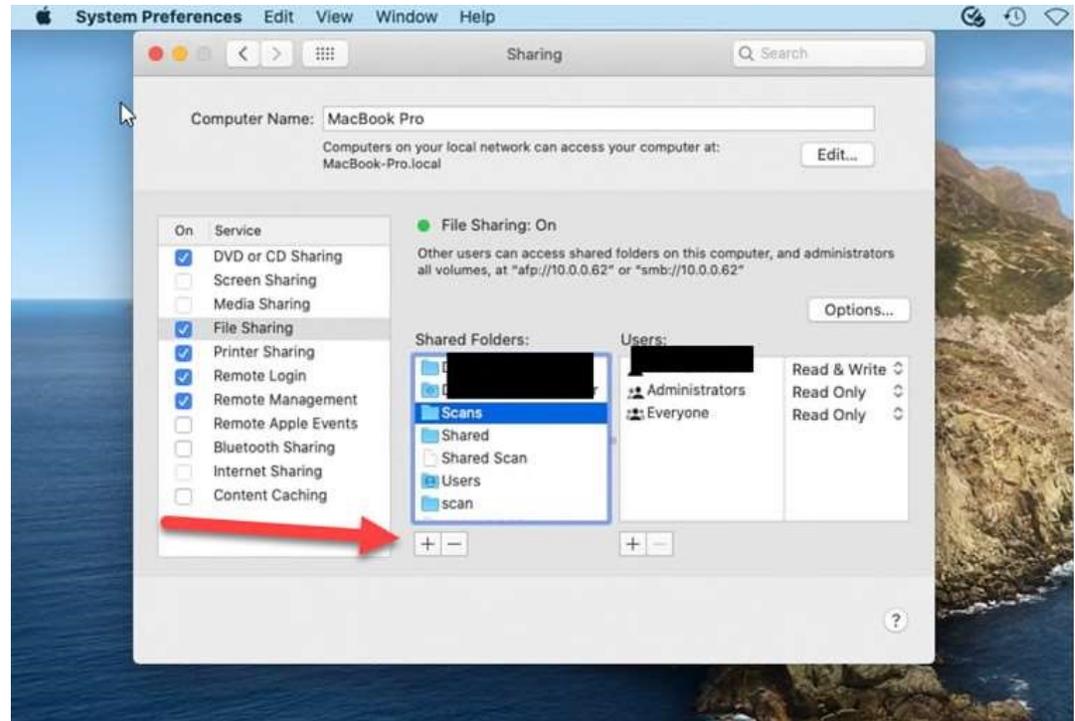
Confirm that the **[Windows File Sharing]** setting and **[Share files and folders using SMB]** setting are enabled for shared user accounts.

Select **[Done]**



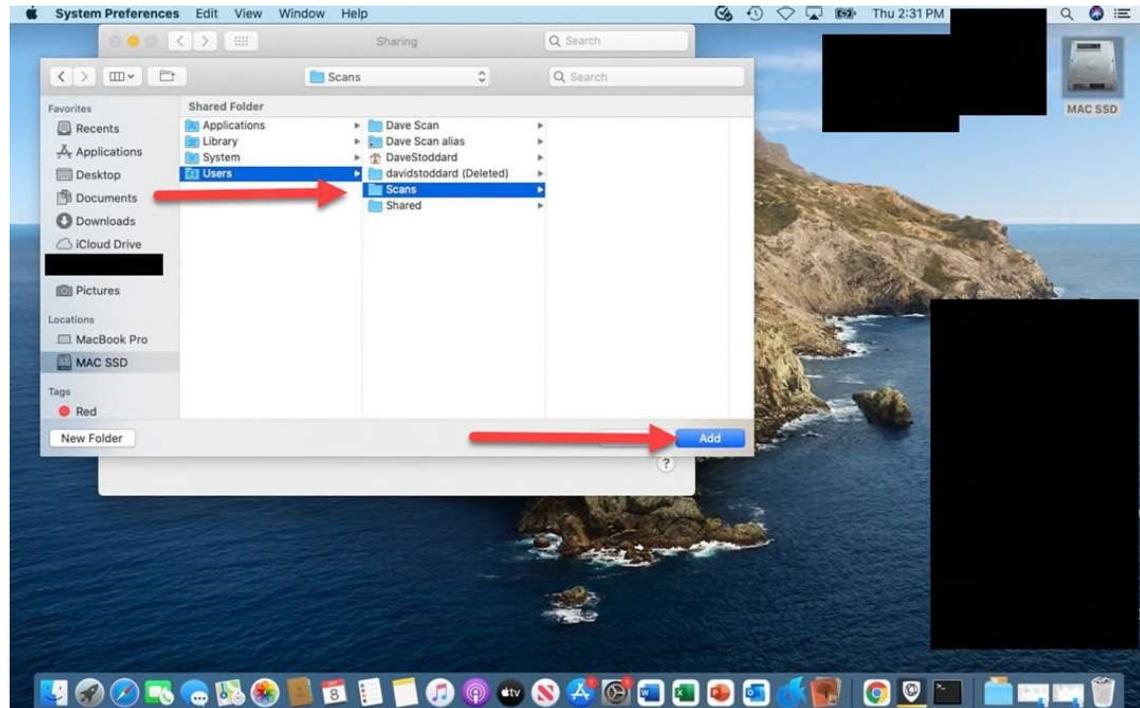
Scan to Folder – Mac OS

Click the **[+]** sign under shared folders



Scan to Folder – Mac OS

Browse to your **[Scans]** Folder



Click **[Add]**

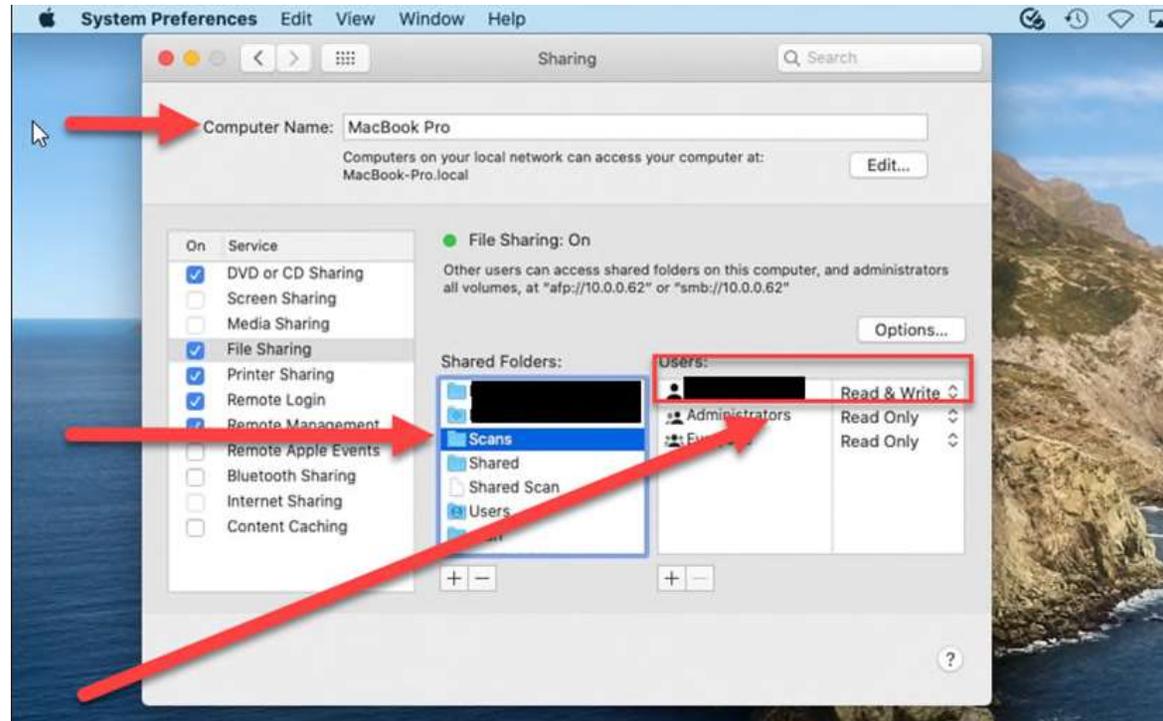


Scan to Folder – Mac OS

Take note of Computer Name

Verify **[Scans]** is listed under Shared Folders

Verify username has Read & Write access



SMB Signing on the Mac

A new status regarding SMB signing labeled "SMB1SigningEnabled" was added in Mac OS (Mavericks). If "SMB1SingningEnabled" is set to "TRUE", the environment cannot conduct Scan to Folder. To be able to conduct Scan to Folder, the value of "SMB1SigningEnabled" will need to be changed.

Check the configuration of the SMB-signing setting. If the setting is enabled, it needs to be disabled.

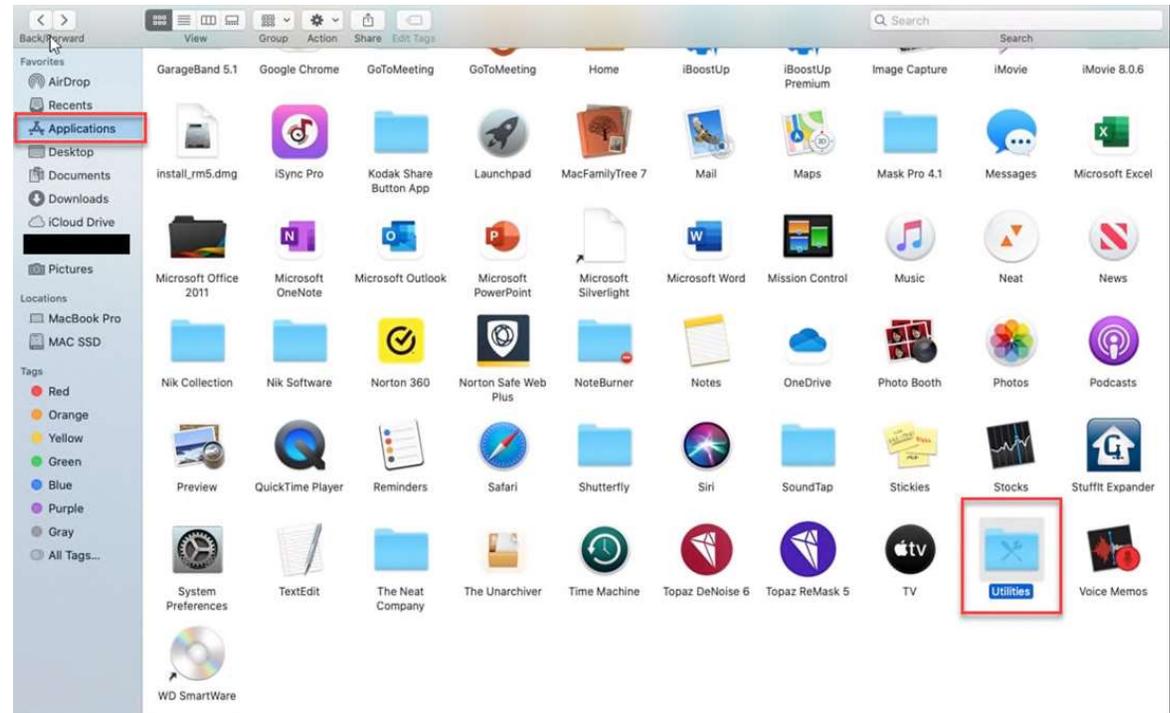
- How to check if SMB signing is enabled or disabled

Please note: As of MAC OS Catalina (10.15.7), it is no longer necessary to disable SMP signing. If it was disabled on prior version, once updated to Catalina (10.15.7) or above, scan to function will not work. Please reverse the instruction that follow.



SMB Signing on the Mac

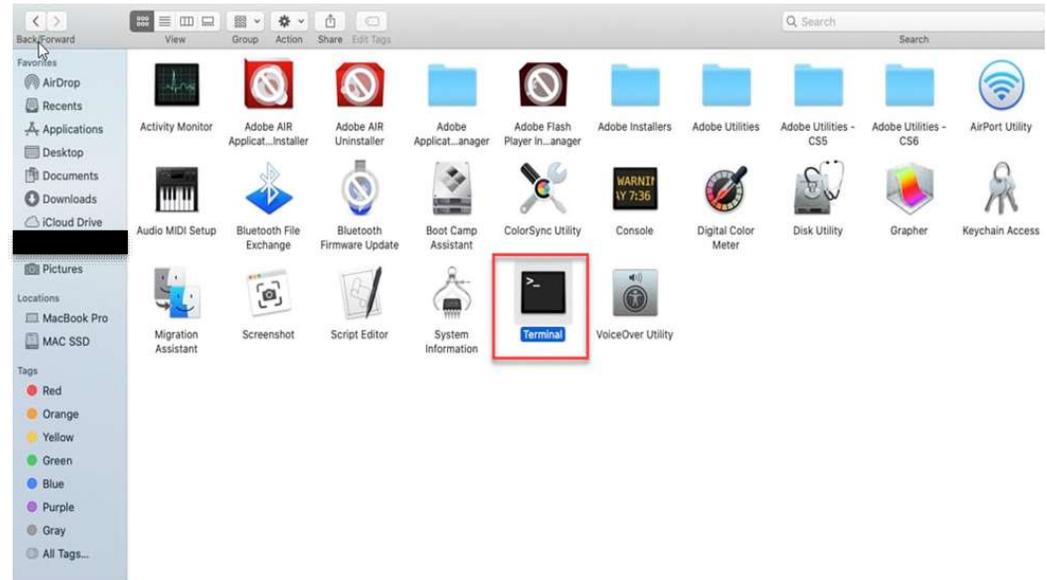
- 1) Open Finder (Title Menu Bar Upper Left)
- 2) Select **[Application]** in the sidebar and open **[Utility]**.



Scan to Folder – Mac OS

Open **[Terminal]**.

- Enter the following command in Terminal to see the configuration for SMB1SigningEnabled:
- **echo "show com.apple.smb" | scutil**
- Press **[Enter/Return]**



Scan to Folder – Mac OS

```
last login: Thu Sep  8 16:27:58 on ttys000
[redacted]@MacBook-Pro ~ % echo "show com.apple.smb" |scutil
dictionary> \
AcIsEnabled : FALSE
AllowDropboxShare : TRUE
AllowGuestAccess : TRUE
DOSCodePage : 850
DirectoryLeasingEnabled : TRUE
FileLeasingEnabled : TRUE
LocalKerberosRealm : LKDC:SHA1.A28FD3E4B929CC3BB04DD...C7C8
MaxClients : 500
NetBIOSName : MACBOOK-PRO
ProtocolVersionMap : 7
QuarantineGuest : TRUE
RegisterName : TRUE
SMB1SigningEnabled : TRUE
SMB1SigningRequired : FALSE
ServerDescription : MacBook Pro
SharingEnabled : TRUE
SigningEnabled : TRUE
SigningRequired : TRUE
StrictDirRename : 2
TransportKeepAlive : 120
VirtualAdminShares : TRUE
VirtualHomeShares : TRUE
Workgroup : WORKGROUP
```

If
"SMB1SigningEnabled"
is set to "TRUE", Scan
to Folder cannot be
conducted.

Check the value of
SMB1SigningEnabled.



How To Disable SMB Signing

1) Open the **[Terminal]** application, located in **[Utilities]**.

2) Enter the following commands to set "SMB1SigningEnabled" to "FALSE":

- **sudo defaults write /Library/Preferences/SystemConfiguration/com.apple.smb.server.plist SMB1SigningEnabled -bool FALSE**
- Press **[Enter/Return]**
- **sudo /usr/libexec/smb-sync-preferences**
- Press **[Enter/Return]**

3) Reboot MAC

Please note: According to Apple, disabling "SMB1SigningEnable" causes the device to not be able to detect an attack that changes how SMB packets are transported. For security and liability purposes, this workaround should be performed by the customer. In addition, because this issue is related to the behavior of Mac OS X, if there are any questions about this workaround, please ask the customer to contact Apple.



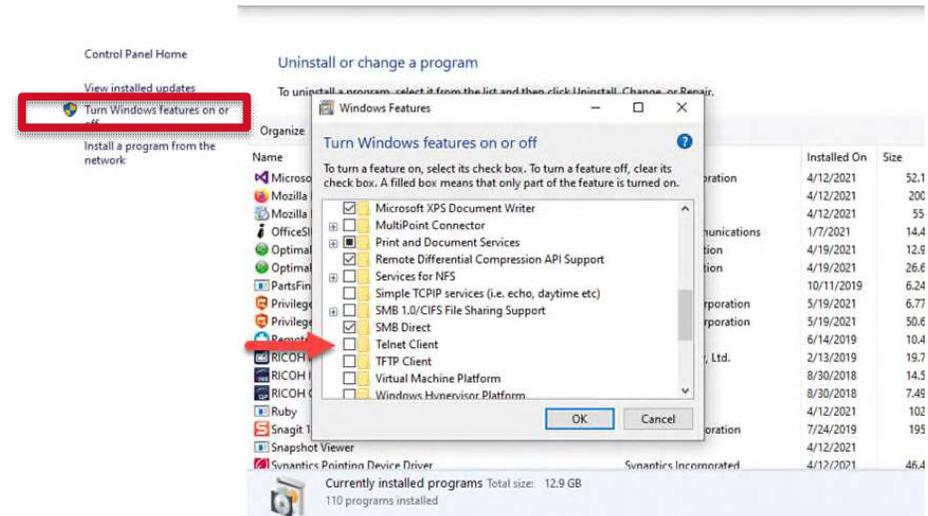
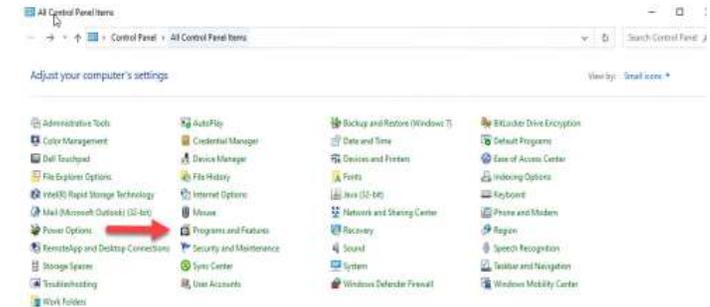
Authentication Method on the MFP

Please note: The remaining procedures are performed on Windows OS

The authentication method needs to be changed from NTLM to NTLMv2 via Telnet: (MAC OS no longer supports Telnet)

- If Windows 7 or a later Windows OS is being used, "Telnet Client" in Windows Features must be enabled beforehand.

Open **[Control Panel]**
Select **[Turn Windows features on or off]**
Check **[Telnet Client]**

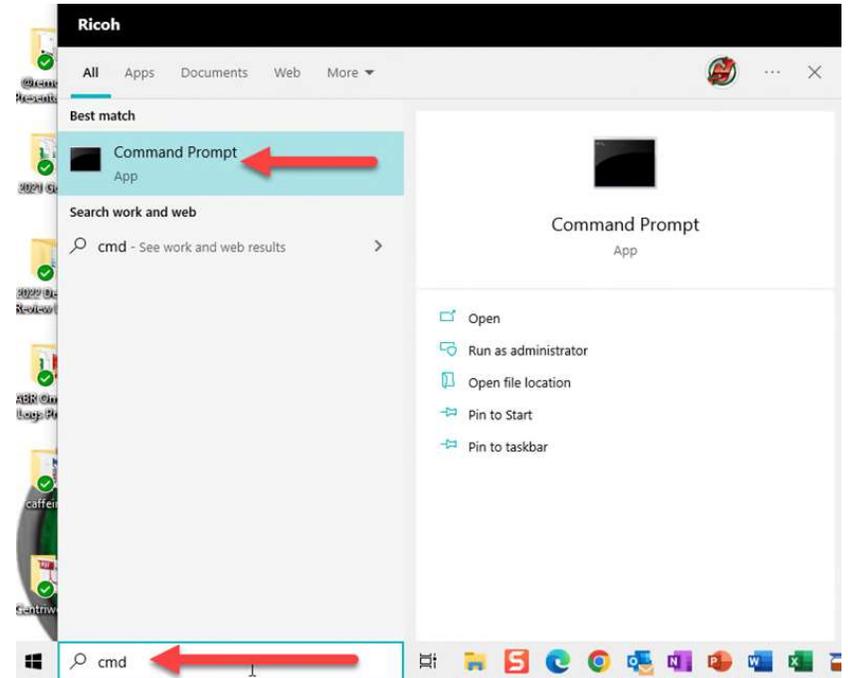




Telnet

Open the Command Prompt

One of the quickest ways to start the Command Prompt is to click the Windows Start button and type **[cmd]**: Press **[Enter]**



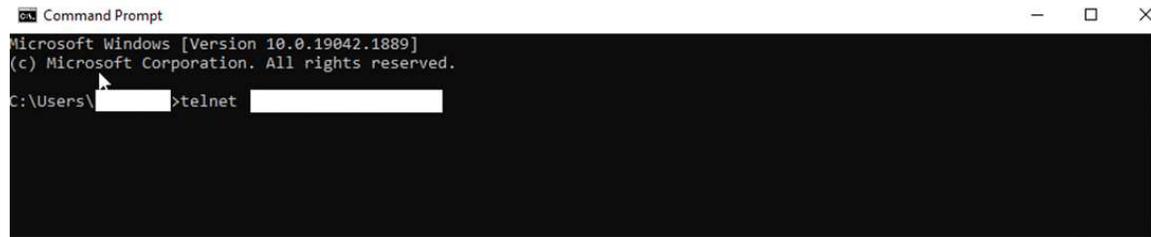


Telnet

Use the IP address or the hostname of the machine to start Telnet.

For example, if the machine's IP address is "192.168.15.16", enter the address as follows:

Telnet 192.168.15.16

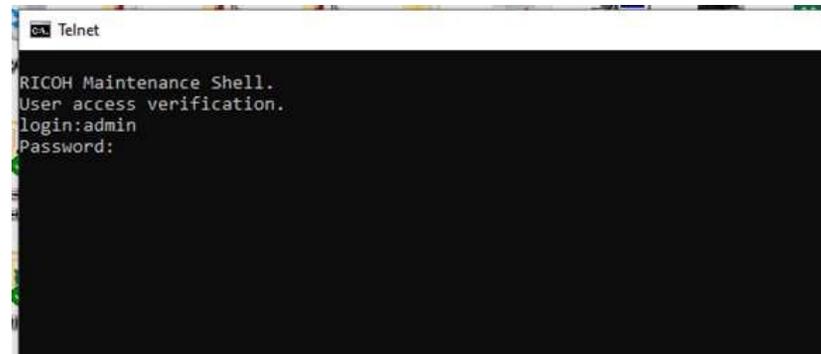


```
Command Prompt
Microsoft Windows [Version 10.0.19042.1889]
(c) Microsoft Corporation. All rights reserved.
C:\Users\>telnet
```

Telnet

1) Enter the **username** and **password**.

Both the username and password are the same as the one for the administrator of Web Image Monitor.



```
Telnet
RICOH Maintenance Shell.
User access verification.
login:admin
Password:
```



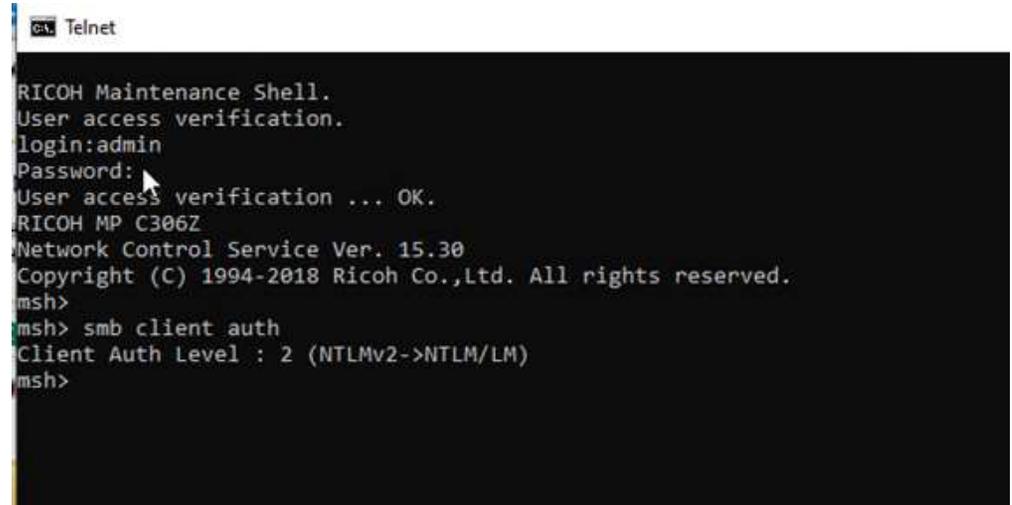
2) Enter a command.

msh> **smb client auth**

- Displays the current setting.

msh> **smb client auth 1** Press **[Enter]**

- Enables NTLMv2.



```
Telnet
RICOH Maintenance Shell.
User access verification.
login:admin
Password:
User access verification ... OK.
RICOH MP C306Z
Network Control Service Ver. 15.30
Copyright (C) 1994-2018 Ricoh Co.,Ltd. All rights reserved.
msh>
msh> smb client auth
Client Auth Level : 2 (NTLMv2->NTLM/LM)
msh>
```

3) Exit Telnet.

msh> **logout**

```
Telnet *
RICOH Maintenance Shell.
User access verification.
login:admin
Password:
User access verification ... OK.
RICOH MP C306Z
Network Control Service Ver. 15.30
Copyright (C) 1994-2018 Ricoh Co.,Ltd. All rights reserved.
msh>
msh> smb client auth
Client Auth Level : 2 (NTLMv2->NTLM/LM)
msh> logout
```

- A message asking to confirm saving the changes appears.
- Type **[yes]** to save the changes and then press **[Enter]**.

When the changes are saved, the network interface board is reset automatically with those changes applied.

```
Do you save configuration data? (yes/no/return) > yes
Yes.
Now, Save data.

Connection to host lost.

C:\Users\test>
```



Proceed to configure MFP via Control Panel / WIM