



## FacetWin SMB Share Connections

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### Requirements: (Updated 9/4/2018)

You must be using FacetWin Version 40t (Build 489) or later on the UNIX server, This contains the latest improvements for working with Windows Vista and newer operating systems. Must upgrade to the [current FacetWin release](#) to take advantage of the latest improvements and optimizations.

DO NOT UNINSTALL!! Just install right over the current version.

### The Problem:

Many FacetWin users find that upgrading to Windows Vista and newer operating systems will cause problems with SMB connections to the UNIX server FacetWin shares.

FacetWin works with SMBv1 only!! SMB1 is not installed by default in Windows 10.

Press the Windows key on your keyboard, type "Windows Features", press Enter.

The "Turn Windows features on or off" dialog box appears.

Select the + for SMB1.0/CIFS File Sharing Support,

Check box SMB1.0/CIFS Client, Select OK,

Reboot your computer if prompted.

### SMB connections to the UNIX server:

On ALL Windows PCs under Ethernet Properties , enable File and Printer Sharing, under TCP/IP Properties, "Enable WINS" with the UNIX server's IP address and "Enable NetBIOS over TCP/IP".

FacetWin **NTLMSSP** and **RHOST** security methods should work for Windows Vista and newer operating systems using the default LAN Manager authentication level (**Send NTLMv2 response only, ...**) without making any changes to the Windows-side to connect to the UNIX server.

**NTLMSSP Security Method:**

To use the NTLMSSP method with FacetWin set `pass_security=NTLMSSP`.

All of the other `pass_security` lines should be commented out.

Run `fct_encrypt -b` on the UNIX server. The user's Windows PC password must be set in the `fctpasswd` file by running `fct_encrypt username` for each user.

Remember to run this command anytime the user's Windows PC's password changes.

Change/Verify the security option on Windows PC:

Administrative Tools

Local Security Policy

Local Policies

Security Options

Network security: LAN Manager authentication level: Send NTLMv2 response only

Registry entry if Microsoft Windows Home Edition:

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Lsa]
"LmCompatibilityLevel"=dword:00000003
```

Apply change and then reboot Windows computer.

**RHOST Security Method:**

To use the RHOST method with FacetWin set `pass_security=RHOST`.

All of the other `pass_security` lines should be commented out.

The RHOST security method is not used very often, because it requires fixed IP addresses and a clear understanding of the `/etc/hosts`, `$/HOME/.rhosts` and `/etc/hosts.equiv` files. For information on these files see the UNIX man pages for `hosts`, `hosts.equiv` and `rhosts`.

The PC names must be resolvable by the UNIX system.

## **UNIX Security Method:**

To use UNIX security method with FacetWin set pass\_security=UNIX.

All of the other pass\_security lines should be commented out.

Change/Verify the security option(s) on Windows PC:

Administrative Tools

Local Security Policy

Local Policies

Security Options

Microsoft network client: Send unencrypted passwords to third-party SMB servers: Enabled

Network security: LAN Manager authentication level:

Send LM & NTLM - use NTLMv2 session security if negotiated

Registry entry if Microsoft Windows Home Edition:

```
[HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\LanmanWorkStation\parameters]"EnablePlainTextPassword"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Lsa]"LmCompatibilityLevel"=dword:00000001
```

Apply change and then reboot Windows computer.

## **LANMAN Security Method:**

To use the LANMAN method with FacetWin set `pass_security=LANMAN`.

Run `fct_encrypt -b` on the UNIX server. The user's Windows PC password must be set in the `fctpasswd` file by running `fct_encrypt username` for each user.

Remember to run this command anytime the user's Windows PC's password changes.

Change/Verify the security option on Windows PC:

Administrative Tools

Local Security Policy

Local Policies

Security Options

Network security: LAN Manager authentication level:

Send LM & NTLM - use NTLMv2 session security if negotiated

Registry entry if Microsoft Windows Home Edition:

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Lsa]
```

```
"LmCompatibilityLevel"=dword:00000001
```

Apply change and then reboot Windows computer.

**NT SERVER Security Method:**

Add the Windows authenticating server IP address and name to the “/etc/hosts” file on UNIX server. In the facetwin.cfg configuration file, the NT SERVER security method is indicated by the line:

```
pass_security=\\nt_server_ip_address
```

where nt\_server\_ip\_address is the IP address of the primary password server.

All of the other pass\_security lines should be commented out.

Change/Verify the security option on Windows PC:

Administrative Tools

Local Security Policy

Local Policies

Security Options

Network security: LAN Manager authentication level:

Send LM & NTLM - use NTLMv2 session security if negotiated

Registry entry if Microsoft Windows Home Edition:

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Lsa]
```

```
"LmCompatibilityLevel"=dword:00000001
```

Apply change and then reboot Windows computer.

## **Print to Shared Printer Connected to Windows PC:**

Remote printing no longer works "out of the box" with Windows. Changes need to be made to allow connections from the UNIX server to the shared printer. This also applies to connecting to shares with FacetWin's fct\_client utility.

Change/Verify the security option on Windows PC:

Administrative Tools

Local Security Policy

Local Policies

Security Options

Network security: LAN Manager authentication level:

Send LM & NTLM - use NTLMv2 session security if negotiated

Change/Verify the security option on Windows PC :

Administrative Tools

Local Security Policy

Local Policies

Security Options

Microsoft Network: Digitally sign communications (always): Disabled

Apply change and then reboot Windows PC.