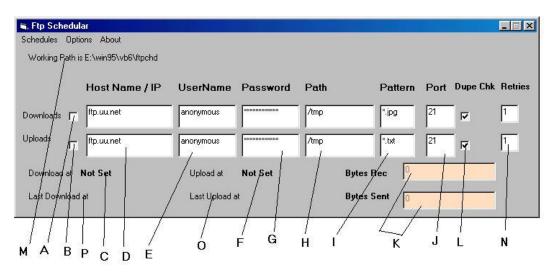
<u>Ftp Schedular Pro User Interface</u> <u>Revised 12th May 2007</u>

Topic

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Standard Version





- A Activate Timer for DownLoader
- B Activate Timer for Uploader
- C Status and Time of Schedule for Download
- D- Ftp Server Name / IP
- E-UserName
- F Status and Time of Schedule for Upload
- G-Password (Hidden)
- H Path on Ftp Server
- I Wildcard Pattern to list to Upload
- J Port of Ftp Server
- K Bytes being Sent
- L Checking to ensure no duplicate files are uploaded
- (By Name, See other menu options to include Size check)
- M Change path where files are to be stored or sent from
- N Number of retries to attempt if a transfer failed
- O- Last date an upload ftp transfer was transacted/attempted schedule
- P- Last date an download ftp transfer was transacted/attempted schedule

Pro Version

The following pages will illustrate the features of the Professional version of the FTP Client.

chedules	Options	FTP Version Site	Manager FTP Ad	vanced Proce	esses Email Notify Tra	acer Hide Abo	ut		
Working)	Path is E:V	win95\vb6\£tpschee]_experiment						
		Host Name / II	P USER	PASS	Path	Pattern	Port	Dupe Chk	Retrie
)ownloads	Off 🗖	ftp.uu.net	anonymous	1	ltmp	1.1	21	V	0
Iploads Of	f 🗖		•					₽	0
Download	at 1AM	InActive	Upload at	Not Set	Byte	s Rec 0			
Last Dow	nload on		Last Uploa	d on	Byte	es Sent		_	



S Ftp Schedu	ílar 👘					annes.				
		FTP_Version Siteh		ises EntailNo	Alty Hide A	tout				
		Host Name 7 IP	USER	PASS	Path		Pattern	Port	Dape Chi	Butrics
Downloads Off	Г	[-	1	1		1	1	R	0
Uploado 0#	Г	·	-	T	1		1	Γ	R	0
Download at	Not S	iet	Upload at	Not Set		Bytes Rec			_	
Last Download	tion		Last Upload	Lon		Bytes Sen		_	_	

Standard Form View

Above shows the before and after Menu layout when you toggle between the Standard and Pro versions.

Each site entered (Download/Upload) can be configured separately with respect to the following key areas:

- □ Time
- □ FXP On/Off
- □ Security On/Off
- □ Process Launcher On/Off

Key features to be illustrated are as follows:

- > FXP
- > Secure FTP
 - Private/Public Key
 - Certificate
- > Shell Processes
- > Email Configuration
- > File Analysis
 - o Spider Search
- > Registered Version

FXP

The FXP works on the principal of launching the FTP site set for download. The scheduling then traverses through all the Upload sites to determine which of those sites have been set for FXP. The files matching the wildcard pattern in the Download site configuration are transferred to the Upload sites.

😵 Ftp Sch	eduler Pro							_ 🗆 🗙
Schedules	Options FTP Version Site Manager	r FTP Adv	vanced Proces	ses Email Notify Tracer	Hide Abo	ut		
Working :	Set Path ✓ Recall PASS	it						
	Delete After DownLoad		PASS	Path	Pattern	Port		Retries
Downloads	Delete After UpLoad Download Timestamp	nous	[Itmp	1.	21	Chk	0
Uploads OI	Upload Timestamp File Size Exists			1		1		0
Downloa	voliny cite integency	ad at	Not Set	Bytes R	ec lo			
Last Dow	Flush Memory Validate All Host Certificates	Upload	don	Bytes S	ent 🚺			

Configuring the scheduler for FXP, you must set the following features:

FXP Paths Changed (Optional)

FXP Forced Port/Swap Swap (Optional if implicit PASV fails)

Allow FXP Secure (Optional if attempting to FXP between Secure FTP sites)

edular	- Form1 (Form)
Options FTP_Version Site Manage Set Path Set Path Recall PASS Delete After DownLoad Delete After UpLoad Download Timestamp Upload Timestamp Upload Timestamp File Size Exists Check File Activity Flush Memory Validate All Host Certificates Certificates Only for SFTP FXP Options Directory Seperator Image: Check Changes (Upload Only)	Non-second data and the second data

FXP w/Raw Commands – Toggles between the two (2) algorithms used to initiate FXP. Choose On/Off (Ticked or UnTicked) to determine which works best.

Distions FTP_Version Site Ma	anager	
Set Path		
 Recall PASS 		
Delete After DownLoad		
Delete After UpLoad		
Download Timestamp		
Upload Timestamp		
File Size Exists	1	
Check File Activity		
Flush Memory		
Validate All Host Certificates		
Validate All Host Certificates Certificates Only for SFTP		
	FXP Paths Changed	1
Certificates Only for SFTP	 FXP Paths Changed FXP Forced Port/Pasy Swap 	
Certificates Only for SFTP FXP Options		FXP w/Raw Command

The following dialog allows you to set the time to run a FTP process. You can now set the Hour and Minutes precisely. If you leave the minutes setting to Zero(0) then the schedule initiates any part of the hour as was the default setting of the older FTP Scheduler.

Down	oad Time	2
1		ctive 🔽 FXP Off
0	Mins After the Ho	ur Daily 🔽 Freq

Download/Upload dialog is selected by the following actions:

- o Double Clicking Time/Not Set label
- O Sub Menu Item Download/Upload from the Schedules Menu Item

The checkbox 'Active' denotes if a site will be included in the scheduled sites to initiate connection. If left unchecked then the site would be omitted.

1		AM 💌 🗆 InAc	ctive 🗖	FXP Off
0	-	Mins After the Hour	Daily	Freq

The checkbox 'FXP On' denotes if a site will be included in the scheduled sites to initiate FXP type transfers.

The Frequency determines if a transfer will initiate Daily or Hourly (Registered Version Only!)

N.B. The 'Active' checkbox must be checked for each site for the site to flagged as active during the schedule process

'Check every 0 Minutes' is only applicable for Registered Version. Freq should be set to Hourly when this functionality is required.

Security

There are 5 protocols for the FTP client:

- FTP Standard (Unsecure)
- SFTP (Secure FTP Public / Private Key)
- FTP Secure No data encrypt (Public Key/Certificate Authenticate)
- FTP Secure data encrypt (Public Key/Certificate Authenticate)
- FTP Implicit (Public Key/Certificate Authenticate)

N.B. Upon configuring the Site information when dealing with public/private key or certification encryption you must always save the Key or Certificate after you load or generate it the 1st time so the system will create a file so when the scheduler triggers it will load the appropriate file for that site.

😵 Ftp Scheduler	Pro			_ 🗆 🗙
Schedules Option	s FTP Version Site Manager		rocesses Email Notify Tracer Hide	About
Working Path is	E:\win95\vb6\ftpsched_experin	Downloader	 PASV Authenticate Pass & Certificate 	
	Host Name / IP US	ER PASS	Protocol 🕨	✓ FTP Standard
Downloads Off	ftp.uu.net 💌 and	mymous	Certificates & Keys	SFTP FTPS_No_Data_Encypt
Uploads Off			- Set File Password Spider FTP Search	FTPS_Data_Encrypt FTPS Setting
Download at 1.	AM InActive U	pload at Not S	et Bytes Rec	0
Last Download o	n La	ast Upload on	Bytes Sent	0

Proxy server settings:

- o Active Sets transfer to be re-routed through a proxy to bypass firewall restrictions
- FXP Inactive Disables FXP to permit access to FTP sites with strict NAT settings
- \circ Proxy Host Dialog to set the Hostname / IP of the proxy server

😵 Ftp Scheduler Pro				
Schedules Options FTP Version Site	Manager FTP	Advanced Pro	ocesses Email Notify Tracer Hid	le About
Working Path is E:\win95\vb6\ftpsched	_experim	iownloader 🕨 Iploader 🕨	 ✓ PASV ✓ Authenticate Pass & Certificate 	
Host Name / IF	USER	PASS	Protocol	tern Port Dupe Retries
D 1 1 0% E			Proxy Settings	Active
Downloads Off 🔽 ftp.uu.net	anonymou	IS	Certificates & Keys Set File Password	FXP Inactive Proxy Host
Uploads Off	-		Spider FTP Search	
Download at 1AM InActive	Upload	at NotSe	t Bytes Rec	0
Last Download on	Last Up	load on	Bytes Sent	0

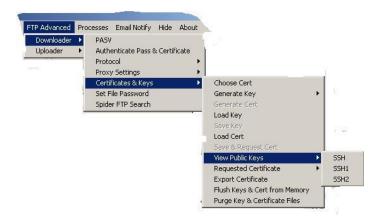
Choosing / Setting the type of encryption for Secure FTP protocols (SFTP, FTPS etc)

- Choose Certificate Select Certificates from windows registry
- o Generate Key Generate Public/Private key for SFTP & FTPS protocols
- o Generate Certificate Generate Certificate for LAN use
- Load Key Load Key saved on previous occasion
- Save Key Save Key in memory to file
- Load Certificate Load Certificate previously saved
- Save / Request Certificate Save Certificate or Request one from 3rd party for internet use
- Flush Keys/Certificates Purge all Keys and Certificates set previously for the Download/Upload Site

🖗 Ftp Scheduler P	ro		- 14				
Schedules Options	FTP Version Site Mana	ger FTP Adv	vanced Proc	esses Email Notify Tr	racer Hide	About	
Working Path is E:	lwin95lvb6lftpsched_exp	erim Down Uploa		 PASV Authenticate Pass & C 	ertificate		
-	Host Name / IP	USER	PASS	Protocol Proxy Settings	*	tern Port	Dupe Retries
Downloads Off	ftp.uu.net 💌	anonymous		Certificates & Keys	٢	Choose Ce	ərt
Uploads Off 🛛 🦵	<u> </u>			Set File Password Spider FTP Search		Generate I Generate (and the second
Download at 1AI	M InActive	Upload at	Not Set	Byt	es Rec	Load Key Save Key	
Last Download on		Last Upload	lon	Byt	es Sent	Load Cert Save & Re	quest Cert

Viewing the Public Keys in different data formats that exists for a Download/Upload site. *N.B. Key must be Generated or Saved before attempting to view public Keys*

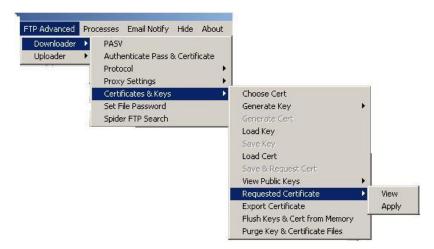
- o SSH
- o SSH1
- o SSH2



View certificate request / Apply Certificate returned from 3rd Party

N.B. Certificate must be Generated or Saved before attempting to view Requested/Saved Certificate

- 0
- View Request Certificate saved as a file previously Apply Implement Certificate from 3rd Party via a load dialog 0



Export Certificate for easy import into Windows Registry.



The status of the export is shown to the user in a popup prompt.

After the standard Site configuration is complete please follow these steps to create a secure FTP Site session:

Step 1

Select SFTP Protocol menu option as shown below:

😵 Ftp Scheduler Pro			
Schedules Options FTP Version Site Manager	FTP Advanced P	rocesses Email Notify Tracer Hide	About
Working Path is E:\win95\vb6\ftpsched_experin	Downloader 🕨	✓ PASV	
	Uploader 🕨 🕨	✓ Authenticate Pass & Certificate	
Host Name / IP US	ER PASS	Protocol 🕨	✓ FTP Standard
Downloads Off Sdf Sdf	1	Proxy Settings Certificates & Keys Zipping Tool Set File Password Spider FTP Search	SFTP FTPS_No_Data_Encypt FTPS_Data_Encrypt FTPS Setting
Download at 1AM InActive U	pload at Not S	er Byres Hec	0
Last Download on La	ast Upload on	Bytes Sent	0

Step 2

Generate a public/private Key as shown below: That's it you are set for Secure Connections. Loading of Keys or Certificates is if provided by external parties.

😵 Ftp Scheduler Pro						_ 🗆 X
Schedules Options FTP Version Site Ma	nager 🛛 FTP Adva	inced Pr	ocesses Email Notify	Tracer Hide	About	
Working Path is E:\win95\vb6\ftpsched_e	xperim Downlo	oader 🔸	V PASV			
	Upload	ler 🕨 🕨	 Authenticate Pass 8 	k Certificate		
Host Name / IP	USER	PASS	Protocol	+	tern Port	Dupe Retries
			Proxy Settings	+		Chk
Downloads Off 🔲 ftp.secure.com	▼ user		Certificates & Keys	۱.	Generate	Secure Key
Uploads Off			Zipping Tool	•	Load Key	
	•		Set File Password		Save Key	
			Spider FTP Search		Choose Ce	ert
Download at 1AM InActive	Upload at	Not Se	अ अ	уусез нес	Generate	Cert
Last Download on	Last Upload o	on	E	ytes Sent	Load Cert	
					Save & Re	quest Cert

Step 3(Optional)

The site session is now configured for a secure connection to the siteTo register the 'Key' with a public organization such as 'Verisign' the step is to submit the public key. This is achieved by pasting the public key in the publicssh file on the FTP Server (Ask site administrator to assist in placing in right file/area). This is achieved by selecting the option below to view the respective public key.

age	FTP Advanced Pro	cesses - Email Notif	/ Hide	About			
Υ	Downloader 🕨	PASV					
	Uploader 🕨 🕨	Authenticate Pas	; & Certil	ficate	· · -		
US	ER PASS	Protocol		•			
		Proxy Settings					
		Certificates & Key	s	۱.	Choose Cert		E
		Zipping Tool		•	Generate Key	►	
1		Set File Password			Generate Cert		1
		Spider FTP Search	n –		Load Key		1
	Hat NotSet		Dytes	nec	Save Key		
			Bytes	Sent	Load Cert		1 .
			-		Save & Request Cert		
		-			View Public Keys	•	SSH
					Requested Certificate	•	SSH1
					Export Certificate		SSH2
					Flush Keys & Cert from Memor	У	
					Purge Key & Certificate Files		N ' ·
				-			COLUMN TO A DESCRIPTION OF A DESCRIPTION

Step 4 (Optional)

In the event you closed the application before step 4, you can 'Load Key' as shown below then follow step 4 to achieve the same result.

💖 Ftp Scheduler Pro			
Schedules Options FTP Version Site Manage	er FTP Advanced Pro	ocesses Email Notify Tracer Hide	About
Working Path is E:\win95\vb6\{tpsched_expe	rim Downloader 🕨	V PASV	
	Uploader 🕨 🕨	✓ Authenticate Pass & Certificate	
Host Name / IP L	ISER PASS	Protocol •	tern Port Dupe Retries
		Proxy Settings 🔹 🕨	
Downloads Off 🔲 sdf 💌 🖻	:df 👘	Certificates & Keys 🔹 🕨	Choose Cert
Uploads Off		Zipping Tool 🔹 🕨	Generate Key
		Set File Password	Generate Cert
		Spider FTP Search	Load Key
Download at 1AM InActive	Upload at Not Se	t Bytes Hec	Save Key
Last Download on	Last Upload on	Bytes Sent	Load Cert
		byter cont	Save & Request Cert

N.B. Do not 'Generate Key' unless you intend to create a new Private/Public key for a site. Please follow step 5 if a key was generated previously for a particular site. Each site session requires you to follow steps 1 through 5.

Processes Settings

0

0

This menu option allows the user to activate the following processes.

- Upload Processes (On/Off) Permit Upload FTP schedules to initiate
- o Download Processes (On/Off) Permit Download FTP schedules to initiate
- Shell Upload Active After Permit process to launch Upload **'Batch Script'** After FTP transfer completes
- Shell Upload Active Before Permit process to launch Upload **'Batch Script'** Before FTP transfer Starts
- Shell Download Active After Permit process to launch Download **'Batch Script'** After FTP transfer completes
- Shell Download Active Before Permit process to launch Download 'Batch Script' Before FTP transfer Starts
 - Shell Upload Script Dialog to enter Upload Script code to execute
 - Shell Download Script Dialog to enter Download Script code to execute
- Shell Blocking
 Enforce blocking to synchronise the Batch Script with the FTP transfer
- Run Shell as script Toggle On/Off to use code in dialog or use single instruction

Please note that the user has the ability activate shell scripts without having the FTP active.

💖 Ftp Schedula	ar				
Schedules Optic	ons FTP_Version Site M	anager FTP_Secure	Processes Email Notify Tracer	Hide About	
Working Path is	s E:\win95\vb6\ftpsched_e	-	FTP Upload Active FTP Download Active		
	Host Name / IP	USER PAS	Shell Upload Active Shell Download Active		Dupe Retries Chik
Downloads Off		•	Shell Upload Script		▼ 0
Uploads Off		-	Shell Download Script Run Shell as .BAT	F	-
Download at	Not Set	Upload at No	Set Bytes A	Rec 0	
Last Download	on	Last Upload on	Bytes S	Sent 0	

Sample of the Shell Script Dialog

Upload Script	
est this thing 2	<u></u>
	-
T	× .

N.B. Leave empty if you don't want a script executing after a particular site transfer is completed. This can be useful especially when you have shell scripts active but you don't want or need every site to launch a Batch Script.

Email Configuration

Below is the Menu option to configure the email notification module.

S Ftp Schedula	í					
Schedules Option Realities Park is	is FTP_Version Site		Secure Place	cost Email Notify Trace Configuration	s Hide About	120000
	Host Name 7 IP		PASS	Alst D Path	Terrae Convert	t Days Ratrice Chi
Downloads Off			1	1	neer V Nove	
Uploado 011	r (T	T	11	
Doverload at N Lott Doverload o	george	Upload at Leiit Uploa	Not Set d on	Byles Bytes		=

Firstly configure the settings shown below applicable to your email client/server. By default the email module will look for Recipient Name and SMTP server settings to change before it permits this moduel to be considered configured properly.

💱 Email Setup	×
Chose Broadcaster	WinSock 📃
SMTP Server IP	
SMTP Server	smtpserver.com
Recipient Name	Tester
Recipient Email	recipient@email.com
Sender Name	ftpnotify
Sender Email	ftpnotify@progwhiz.com
User Name	
Password	
Port	25

File Analysis

FTP site recursive directory search Enabled/Disabled by checking/unchecking the **Spider FTP Search** submenu option

Schedules Options F	TP Version Site Manager	FTP Adv	anced Pro	esses Email Notify	Tracer Hi	de About	t	
Working Path is E:\wi	n95\vb6\ftpsched_experi	m Down Uploa		 PASV Authenticate Pass & 	. Certificate			
Downloads Off 🗖	Host Name / IP US	SER	PASS	Protocol Proxy Settings Certificates & Keys Set File Password Spider FTP Search		 tern tern 	Port Dup Chk	P Retries
Download at Not S Last Download on		Jpload at .ast Upload	Not Set		ytes Rec ytes Sent	0		

Selecting the following enforces file integrity checks

💱 Ftp Sch	nedular								_ 🗆 X
Schedules	Options FTP_Version Site Mana	ager FTP_S	ecure Proce:	sses Email Notif	y Tracer H	ide Abou	ıt		
Working J	Set Path ✔ Recall PASS	ent							
	Delete After DownLoad	FR	PASS	Path		Pattern	Port		Retries
Downloads	Download Limestamp		1	1		1	1	Chik I	0
Uploads Of	Upload Timestamp ✓ File Size Exists		1	1		1		•	0
Download	 Check File Activity Flush Memory 	load at	Not Set		Bytes Rec	0			
Last Dow	Validate All Host Certificates Force Certificates w/SFTP	st Upload	on		Bytes Sen	t 0	_		

iedular						
Options	FTP_Version	Site Manager				
Set F	Path					
✓ Reca	all PASS					
Delei	te After DownLo	ad				
Dele	te After UpLoad					
Dow	nload Timestam	p				
Uplo	ad Timestamp					
File S	ize Exists					
Chec	k File Activity					
Flush	n Memory					
Valid	ate All Host Cer	tificates				
Certif	icates Only for 9	SFTP				
FXP	FXP Options					
Directory Seperator						
Type 🕨						
Tran	Transfer type 🔹 🕨					
Chec	k Changes (Up	load Only)				

- File Exists Assumes file size response is received from the FTP server
- Check Changes (Upload Only) Checks for new files awaiting upload
- Check File Activity Verifies the file being transferred is not Busy before permitting transfer to initiate

Registered Version

The 3 key differences between the Unregistered and Registered version is as follows:

Registered Unregistered

	Set # of retries	Only 1 Retry
2)	Set to transfer hourly	N/A
3)	Support 24/7	Support 8/5
4)	Auto Renewal	No Renewal
5)	Free updates	Free updates
6)	Triggered Upload	N/A
7)	Zip/Unzip	Unzip Only
8)	Schedule by Time Difference	N/A

Auditing Features & Log Files

File Name	Description
DL_FILE_SIZE.LOG	Records the Date, Time, Site Name, Name of file received and the size in bytes as well as if the transfer was a FAIL or PASS.
FILEUPL.LOG	Records the Date, Time, Site Name, Name of file sent and the size in bytes as well as if the transfer was a FAIL or PASS.
FILEUPL1.LOG	Name of files uploaded. The files will not be re-uploaded once the dupe-check check box is checked
FILENAME2.LOG	Name of files downloaded. The files will not be re-downloaded once the dupe-check check box is checked
VALUES.LOG	Records the last settings used in the ftp client. The password is encrypted in this file for security measures
ERR_UPLOAD.LOG(Standard Only)	Records the Date & Time the FTP could not connect to the FTP server or Network to initiate an Upload.
ERR_DLOAD.LOG(Standard Only)	Records the Date & Time the FTP could not connect to the FTP server or Network to initiate a Download.
FILEXT.DAT(Professional Only)	Stores all the known ASCII File types. Add or delete to assist the auto transfer detect option in detecting the proper transfer mode
DONE.DAT(Professional Only)	Logging all FTP site Errors
WAITING.CHK	File which is created to denote a shell script is active. When the 'Shell Blocking' is active

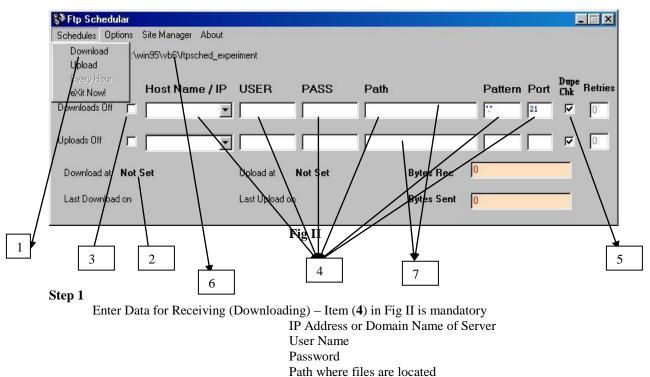
Secure FTP Certificates/Keys & Shell/Bat Files

PUBLICDXX.LOG PUBLICUXX.LOG	Public key in RAW format
PUBLICSSHDXX.LOG PUBLICSSHUXX.LOG	Public key in SSH format
PUBLICSSH1DXX.LOG PUBLICSSH1UXX.LOG	Public Key in SSH1 format
PUBLICSSH2DXX.LOG PUBLICSSH2UXX.LOG	Public Key in SSH2 format
CERTDXX.LOG CERTUXX.LOG	Certificate not encrypted format saved in this file
SHELLDL.BAT SHELLUL.BAT	Text file containing single line instruction for BAT process
SHELLDL2.DAT SHELLUL2.DAT	Text file containing script instructions for BAT process
DEFKEYDXX.KEY DEFKEYUXX.KEY	Private key encrypted with pass from 'Set File Password' submenu option
DEFCERTDXX.CRT DEFCERTUXX.CRT	Certificate encrypted format saved in this file
DEFPFXXX.PFX DEFPF2XXX.PFX	Certificate/Private Key contained in this file
DEFREQXX.CRT DEFREQUXX.CRT	Certificate Request saved in this file

XX- Denotes Site #

N.B. Password Protection for textbox's enforced when Registration Name ends in 'S'

<u>User Guide</u>



Type of Files to retrieve

Listening Port of Server

N.B. (7) After the site information has been added and 'Activated' the user can double click on this textbox Area to view the Directory contents to verify the path is correct or simply navigate.

Step2

Set Download Time by selecting option (1) or double click on (2) as shown in Fig II. Which pulls up the following dialog Box, shown below in Fig III.

- i) Select the time (AM or PM)
- ii) Select if the transfer starts at a specific number of minutes after the hour (leave at zero(0) if desired to start anytime once the hour is reached)
- iii) Set if the transfer starts daily or hourly (Only available in Registered version)
- iv) Check the tick box to flag the transfer as active



Step3

Click on option (3) to start the download timer for all the 'Active' download sessions set in Step 2 for a specific FTP Site.

Step4

Activate/Deactivate duplication check safety option (5)

Step5 Set path to which all files are Sent/Received option (6)

P.S. The steps taken to set the Downloading Schedule is to be replicated for Uploading

Special Features

	Aborting	Transfers	if Network	Fails and	attempts nex	t file on (Oueue
_	11001 ting	I I dilbici b	II I WOUNDIN	I and and	uttempts nes	t me on v	Queue

- **D** Adjusts Download/Upload timers if one process takes longer than estimated
- □ Automatically retries to receive/send a file upon failure
- **D** logging even critical errors without causing an application Error
- □ Verifying all required fields are populated with valid entries
- **Comprehensive information giving status of current and last transfers**
- **D** Ability to toggle the ability to save the Password (Default is Unchecked)
- **Delete the successfully downloaded file from the FTP Server (Default is Unchecked)**
- **Delete file after it is successfully uploaded to the FTP Server (Default is Unchecked)**
- **D** Prevents the application from being exited while a transfer is in process
- □ Ability to detect when a transfer ends when the FTP server response is not efficient (File Size known menu property must be checked)
- **D** Ability to estimate accurately the duration for a file transfer

New Features

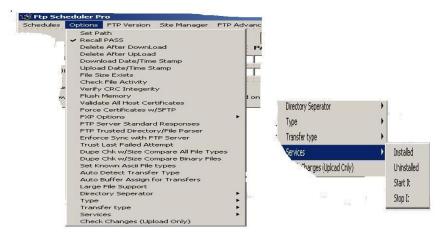
The following features were added based on user feedback as 'Value Add'. The new features are as follows:

1) Large File support greater than 2.4Gig+



The limitation of most FTP clients is that the size is calculated using a 32Bit value which is limited to 2.4gig Signed or 4.2Gig Unsigned. This new support enables file up to 16000 TeraBytes.

2) Ability to launch as a Windows Service



As the above images shows the FTP Scheduler Pro can be launched as a Windows Service. It is noteworthy to mention that if the Scheduler is not Active the Service will not be allowed to be launched. Also if the service is stopped via the FTP Scheduler Pro it can only be relaunched via the application not Windows Service Manager, this is to ensure full control by the application.

3) Ability to Compress/Uncompress Files Post/Pre file transfers using the Zip Algorithm



Both Upload and Download transfers can now denote if to compress a file before or after a transfer respectively. Further to which a file can be uncompressed after a download. Encryption is also supported. *Only the Uncompress option is available in the Unregistered version*.

4) Ability to Reduce CPU Cycles.

💖 Ftp Sch	eduler Pro									
Schedules	Options FTP Version Site Manager	FTP Adv	vanced P	rocesses	Email Notify	Tracer Hi	de Abou	ıt		
Working	Set Path									
	✓ Recall PASS									
	Delete After DownLoad		PASS	Pat	h		Pattern	Port	Dupe	Retries
	Delete After UpLoad								Chk	_
Downloads	Download Date/Time Stamp			/tmg)		ŀ	21		0
	Upload Date/Time Stamp								_	
Uploads OI	Resume for Binary Files									0
	Reduce CPU Cycles									
Downloa	File Size Exists		Not S	et		Bytes Rec	0			
Last Dow	Check File Activity		lon			Bytes Sent	0			
2300 0000	Verify CRC Integerity						12			

5) Ability to search for String/Hex patterns in a file to determine if a file transfer is to take place and/or a file is kept.

🛞 Ftp Scheduler Pro			
Schedules Options FTP Version Site Manager	FTP Advanced	Processes Email Notify Tracer Hide	About
Working Path is E:\win95\vb6\ftpsched_experim	Downloader Uploader	 PASV Authenticate Pass & Certificate 	
Host Name / IP US Downloads Off Image: Comparison of the second	ER PASS	Protocol Proxy Settings Certificates & Keys Zipping Tool File Content Search	tern Port Dupe Retries
	oload at Not st Upload on		0

Menu option is shown above. The setting is unique to each FTP session created (Upload/Download). Special care must be taken using this option. For instance if the String/Hex is not present a transfer will not be permitted and the system will not attempt to retrieve the file as it would be logged by the system as a file to ignore when the 'Dupe Chk' is set.

Below shows the dialog which permits the user to choose between a String or Hex search:

😵 Download File Search	String		X
	String	C Hex	
String Pattern			C Active

In addition to the ability to search for String patterns the user can now also search for current **Date/Time** values. This is facilitated by using the following syntax in *the String Search* option:

- 1) \$Date(yy/mm/dd)
- 2) \$Date(yyyy/mm/dd)
- 3) \$Date(yy:mm:dd hh:mm:ss)
- 4) \$Date(mmm dddd)

5) Appendix

Menus

Schedules Menu

Schedules Opti	ons FTP Version Site	e Manager 🛛 FTP Adv	anced Proces	sses Email Not	ify Tracer H	ide About		
Download Upload eXit Now!	E:\win95\vb6\ftpscho Host Name /		PASS	Path		Pattern Por	t Dupe Chi	Retries
Downloads Off		•	1	1				0
Jploads Off		•	1	1				0
Download at	Not Set	Upload at	Not Set		Bytes Rec	0		
Last Download	1 on	Last Upload	lon		Bytes Sent	0		

Options Menu

👫 Ftp Sch	eduler Pro		- 🗆 🗵
Schedules	Options FTP Version Site Manager	FTP Advanced Processes Email Notify Tracer Hide About	
Working	Set Path Recall PASS	e.	
	Delete After DownLoad	PASS Path Pattern Port Du	pe Retries
Downloads	Delete After UpLoad Download Timestamp		0
Uploads O	Upload Timestamp File Size Exists	۶	0
Downloa	Check File Activity Verify CRC Integerity	ad at Not Set Bytes Rec 0	
Last Dow	Flush Memory Validate All Host Certificates	Upload on Bytes Sent 0	

Site Manager

Schedules Options FTP Version	Site Manager FTP Advance	d Processes Email Notify Tracer	Hide About	
Working Path is E:\win95\vb6\ftp Host Nam	Add Download Site Add Upload Site Remove Download Site	β Path	Pattern Port	Dupe Retries
Downloads Off	Remove Upload Site			
Uploads Off 📃	<u> </u>			
Download at Not Set	Upload at	ot Set Bytes Re	9C 0	
Last Download on	Last Upload on	Bytes Se	nt 0	

FTP Advanced Settings

Schedules Options	FTP Version Site Manager	FTP Advance	d Pro	cesses Email Notify	Tracer Hic	le Ab	out		
Working Path is E:	win95\vb6\£tpsched_experim	Downloade	er 🕨	PASV					
		Uploader	•	 Authenticate Pass & 	Certificate				
	Host Name / IP US	ER PA	55	Protocol Proxy Settings		ter	n Port	Chk	Retrie
ownloads Off				Certificates & Keys		•		7	0
Jploads Off 🛛 🗖	_			Set File Password Spider FTP Search				•	0
Download at Not	Set U	pload at N	ot Set	в	ytes Rec	0	1		
Last Download on	La	st Upload on		В	vtes Sent	0	_		

Process Settings

😵 Ftp Scheduler Pro			
Schedules Options FTP Version Site Manager FTP Advanced	Processes Email Notify Tracer Hide	About	
Working Path is E:\win95\vb6\{tpsched_experiment	FTP Upload Active FTP Download Active Shell Upload Active After FTP		
Host Name / IP USER PAS	Shell Upload Active Before FTP Shell Download Active After FTP	tern Port Dup Chk	e Retries
Uploads Off	- Shell Download Active Before FTP Shell Upload Script	N	0
Download at Not Set Upload at No Last Download on Last Upload on	Shell Download Script shell Blocking Shell Auto Close Run Shell as .BAT	0	