

Advantech SE Technical Share Document

Date	2019 / 07 / 24						
Category	■ FAQ □ SOP	Related Pro	Related Product		ADA V8.4.1		
	🗆 Driver Tech Note						
Abstract	To upload a file to a	o upload a file to a FTP Server by using FTPC driver					
Keyword	WebAccess/SCADA	/ebAccess/SCADA, FTPC					
Related OS	Win7, Windows Se	Win7, Windows Server 2008 / 2012 / 2016, Win10					
		Revision Hist	ory				
Date	Version	Author		Reviewer	Description		
2019/07/20	V1.0	Alger Tan					
2019/09/04	V2.0	Alger Tan			Add notes		
2019/10/01	V2.0			Nick Liu			

Problem Description & Architecture:

The purpose of this FAQ is to describe how user can upload a file to FTP server by using WebAccess/SCADA FTPC driver.

Here we will use Advantech FTP Server as an example

- Advantech FTP server: <u>ftp.advantech.com.tw</u>
- Password: ******* (is hidden)

Scenario:

User plans to upload a "manage.asp" file from C drive to test folder in Advantech FTP server.



Figure 1: a file prepares to upload to FTP Server

Expected Result:

 ・ 電腦	按尋本 ♀ ▼ □ ②	G ● ↓ 《 ftp.advantech.com.tw test 组合管理 マ	 <i>投尋 test 𝔅</i> <i>𝔅 𝔅</i>
名稱 manage.asp Npbwplgd.dll Npbwplgv.dll TerminateUneccesaryIE.exe	修改日期 2015/5/2 2011/11/ 2011/11/ 2019/6/4 2015 (5)	 ● 文作▲ ◆ 音考 ● 圖, 視話 ● 圖, 正 ● □ □ □ ■ □	
manage.asp 修改日期: 2015/5/22 下午 05 ASP 檔案 大小: 7.43 KB	i:40	1 個項目	

Figure 2: upload completed



Brief Solution - Step by Step:

- 1. Find out Advantech FTP Server IP address by using DOS ping command.
 - User has to enter FTP Server IP address because FTPC driver doesn't support URL.

🚮 系統管理員: C:\Windows\system32\cmd.exe
Microsoft Windows [版本 6.1.7601] Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\alger.tan <mark>pping_ftp.advantech.com.tw</mark>
Ping ftp.advantech.com.tw [125.252.70.80] (使用 32 位元組的資料) 回覆自 125.252.70.80 位元組=32 時間=61ms TTL=118 回覆自 125.252.70.80 位元組=32 時間=64ms TTL=118 回覆自 125.252.70.80 位元組=32 時間=60ms TTL=118 回覆自 125.252.70.80 位元組=32 時間=60ms TTL=118

Figure 3: find out FTP Server IP address

- 2. Based on ping result, the IP address for Advantech FTP server is 125.252.70.80
- Create a WebAccess project: Comport Configuration: select API in Interface Name.

	Update Comport [Cancel] Submit
Interface Name	API 🗸
Comport Number	1
Description	Description
Scan Time	1 O MilliSecond O Second O Minute O Hour
Timeout	1000 MilliSecond
Retry Count	3
Auto Recover Time	60 Second

Figure 4: API Comport

- 4. Device Configuration:
 - **Device Name:** ftp (any name)
 - Device Type: FTPC
 - Passive mode: 1
 - IP:Port: 125.252.70.80:21 (FTP Server IP address: FTP Server port number)
 - Username: password: IAG.AE.FTP: xxxxxxxx



		Devic	e Property	[Cancel]	Submit
Device Name	ftp				
Description]			
Unit Number	0				
Device Type	FTPC 🗸				
Passive mode (1:enable,0:disable) =	1]		
IP:Port =	125.252.70.80:21				
Username:passowrd =	IAG.AE.FTP:xxxxxxx				×

Figure 5: select FTPC in Device Type

Note: IP:Port must enter FTP Server IP address with port number. It doesn't allow entering the URLs

- Acceptable: 125.252.70.80:21
- Not Acceptable: <u>ftp://ftp.advantech.com.tw</u>
- 5. Tag Configuration:

To add tags, we recommended using block. Click "Add Block"

Delete Add Tag Add Block	
	Device Property

Figure 6: Add Block

New Block Configuration:

- Block Type: FtpBlk (by defult)
- Block Name: ftp (any name user prefers)
- Offset: 0

	Create New Block
Block Type	FtpBlk 🗸
Block name	ftp
Description	
Offset	0 ×

Figure 7: New Block Configuration

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6. 18 tags will be created

		ftp:LocaSize	А	::Local files size got from local path	local_size
Project/Node		ftp:RemoSize	А	::Remote files size got from FTP server	remote_size
ftp 🔄 scada		ftp:DelLocaF	D	::Trigger to delete a local file	delete_local_flag
Scada Port1 (api)		ftp:DelRemoF	D	::Trigger to delete a remote file	delete_remote_flag
Cantop ≔ ftp		ftp:DownLodF	D	::Trigger the FTP download	download_flag
Device Driver	2	ftp:GetLocaF	D	::Trigger to get file list or dictionary list from a local	get_local_flag
<u>A101</u>		ftp:GetRemoF	D	::Trigger to get file list or dictionary list from a FTP	get_remote_flag
ABMLGX ABPLC5		ftp:UpLodF	D	::Trigger the FTP upload	upload_flag
ABPLCEIP		ftp:DLocFile	Т	::Delete a local file name only	delete_local_file
ABSLC5 AceFAM3		ftp:DownFile	Т	::File name to save in a local file name only	download_file
ADAM2K		ftp:DRemFile	Т	::Delete a file in FTP server name only	delete_remote_file
ADAM4K ADAM5560		ftp:LocaName	Т	::Local files name got from local path	local_name
ADAM5KASC		ftp:LocaPath	Т	::Local file path for the FTP download, upload,	local_path
ADAM5KE ADAM6K		ftp:LocaTime	Т	::Local files time got from local path	local_time
ADMIO		ftp:RemoName	т	::Remote files name got from FTP server	remote_name
AdvDAinfo AdvPAC		ftp:RemoPath	т	::Remote FTP path for the FTP downloand, upload,	remote_path
<u>AE6000</u> Agi34972A		ftp:RemoTime	т	::Remote files time got from FTP server	remote_time
AlienRFID	\checkmark	ftp:UpFile	т	::File name to save in a remote file name only	upload file
ADAY		• •			• =

Figure 8: a block has 18 tags

7. Go to ViewDAQ Point Info after user downloads and starts the kernel.

Point Info					
Tag Name: ftp:LocaPath		ftp:LocaPath			
Description: ::Local file path for the F	FP download, upload	ftp:DelLocaF			
, delete, get		ftp:DelRemoF			
Tag Type: TEXT		ftp:DLocFile			
Scan Type: CONSTANT SCAN		ftp:DownFile			
Port: 1 Unit: 0		ftp:DownLodF			
		ftp:DRemFile ftp:GetLocaF			
Device Name: ftp		ftp:GetRemoF			
Address: local_path		ftp:LocaName			
		ftp:LocaPath			
Value:		ftp:LocaSize			
varue:		ftp:LocaTime			
		ftp:RemoName ftp:RemoPath			
		ftp:RemoSize			
		ftp:RemoTime			
		ftp:UpFile			
		ftp:UpLodF			-
		1			
		I/O Tag	Vi	ewDAQ	
		Accumulation	Port 1	Port 4	
		Calculation	Port 2	Port 5	
Goto Change Acknow	ledge Exit	Constant	Port 3	Port 6	

Figure 9: Point Info



8. Select "ftp:LocaPath" tag

Click "change" button and enter "c:\"

int Info				
ag Name: ftp:LocaPath	ftp:LocaPath			
escription: ::Local file path for the FTP download, upload	ftp:DelLocaF			_
, delete, get	ftp:DelRemoF			_
Tag Type: TEXT	ftp:DLocFile			
Scan Type: CONSTANT SCAN	ftp:DownFile			
	ftp:DownLodF			
Port: 1 Unit: 0	ftp:DRemFile			
Device Name: ftp	ftp:GetLocaF			
Address: local_path	ftp:GetRemoF ftp:LocaName			
	ftp:LocaPath			
	ftp:LocaSize			
/alue: c:\	ftp:LocaTime			
	ftp:RemoName			
	ftp:RemoPath			
	ftp:RemoSize			
	ftp:RemoTime			
	ftp:UpFile			
	ftp:UpLodF			
	I/O Tag	V	iewDAQ	
	Accumulation	Port 1	Port 4	
	Calculation	Port 2	Port 5	
Goto Change Acknowledge Exit	Constant	Port 3	Port 6	╎┖

Figure 10: ftp:LocaPath tag

9. Select "ftp:RemoPath" tag

Click "Change" button and enter "test"

Point Info				
Tag Name: ftp:RemoPath	ftp:RemoPath			
Description: ::Remote FTP path for the FTP downloand, uploa	ftp:DelLocaF			
d, delete, get	ftp:DelRemoF			
Tag Type: TEXT	ftp:DLocFile			
Scan Type: CONSTANT SCAN	ftp:DownFile			
	ftp:DownLodF			
Port: 1 Unit: 0	ftp:DRemFile			
Device Name: ftp	ftp:GetLocaF			
Address: remote_path	ftp:GetRemoF ftp:LocaName			
	ftp:LocaPath			
	ftp:LocaSize			
Value: test	ftp:LocaTime			
	ftp:RemoName			
	ftp:RemoPath			
	ftp:RemoSize			
	ftp:RemoTime ftp:UpFile			
	ftp:UpLodF			
	lip.ophour			-
	I/O Tag	Vi	ewDAQ	
	Accumulation	Port 1	Port 4	
	Calculation	Port 2	Port 5	
Goto Change Acknowledge Exit	Constant	Port 3	Port 6	

Figure 11: ftp:RemoPath tag



10. Select "ftp:GetLocaF" tag

Tag Name: ftp:GetLocaF	ftp:GetLocaF			
Description: ::Trigger to get file list or dictionary list	ftp:DelLocaF			-
from a local syst	ftp:DelRemoF			_
Tag Type: DIGITAL	ftp:DLocFile			
Scan Type: CONSTANT SCAN	ftp:DownFile			
Port: 1 Unit: 0	ftp:DownLodF			
	ftp:DRemFile			_
Device Name: ftp	ftp:GetLocaF			
Address: get_local_flag	ftp:GetRemoF ftp:LocaName			
Span High: 1.0	ftp:LocaPath			
Span Low : 0.0	ftp:LocaSize			
	ftp:LocaTime			
	ftp:RemoName			
Value: 0	ftp:RemoPath			
	ftp:RemoSize			
	ftp:RemoTime			
	ftp:UpFile			
	ftp:UpLodF			
		Vi	ewDAQ	
	I/O Tag			
	I/O Tag Accumulation	Port 1	Port 4	
	-		Port 4 Port 5	

Figure 12: ftp:GetLocalF tag

Note: tag value will return to 0 after the file uploads to FTP server.

11. Select "ftp:GetRemoF" tag

Point Info				
Tag Name: ftp:GetRemoF	ftp:GetRemoF			
Description: ::Trigger to get file list or dictionary list				
from a FTP server	ftp:DelLocaF ftp:DelRemoF			
Tag Type: DIGITAL	ftp:DLocFile			
	ftp:DownFile			
Scan Type: CONSTANT SCAN	ftp:DownLodF			
Port: 1 Unit: 0	ftp:DRemFile			
Device Name: ftp	ftp:GetLocaF			_
Address: get_remote_flag	ftp:GetRemoF ftp:LocaName			
Span High: 1.0	ftp:LocaPath			
Span Low : 0.0	ftp:LocaSize			
	ftp:LocaTime			
	ftp:RemoName			
Value: 0	ftp:RemoPath			
	ftp:RemoSize			
	ftp:RemoTime			
	ftp:UpFile ftp:UpLodF			
	Lich.oprodr			-
	I/O Tag	V	iewDAQ	
	Accumulation	Port 1	Port 4	
	Calculation	Port 2	Port 5	
Goto Change Acknowledge Exit	Constant	Port 3	Port 6	

Figure 13: ftp:GetRemoF tag

Note: tag value will return to 0 after the file uploads to FTP server.



12. Select "ftp:UpFile" tag

Click "Change" button and enter "manage.asp"

oint Info		
Tag Name: ftp:UpFile	ftp:UpFile	
Description: ::File name to save in a remote file name	ftp:DelLocaF	
nly	ftp:DelRemoF	
Tag Type: TEXT	ftp:DLocFile	
Scan Type: CONSTANT SCAN	ftp:DownFile	
	ftp:DownLodF	
Port: 1 Unit: 0	ftp:DRemFile	
Device Name: ftp	ftp:GetLocaF ftp:GetRemoF	
Address: upload_file	ftp:LocaName	
	ftp:LocaPath	
	ftp:LocaSize	
Value: manage.asp	ftp:LocaTime	
	ftp:RemoName	
	ftp:RemoPath	
	ftp:RemoSize	
	ftp:RemoTime	
	ftp:UpFile	
	ftp:UpLodF	-
	I/O Tag ViewD	AQ
	Accumulation Port 1	Port 4
	Calculation Port 2	Port 5
Goto Change Acknowledge Exit	Constant Port 3	Port 6

Figure 14: ftp:UpFile tag

13. select "ftp:UpLodF" tag

Click "Change" and enter 1.

P	oint Info	55			_		
	Tag Name: ftp:UpLodF			ftp:UpLodF			
	Description: ::Trigger the FTP	upload		ftp:DelLocaF			
	Tag Type: DIGITAL			ftp:DelRemoF			
	Scan Type: CONSTANT SCAN			ftp:DLocFile			
	Port: 1 Unit: 0			ftp:DownFile			
	Device Name: ftp			ftp:DownLodF			
				ftp:DRemFile ftp:GetLocaF			
	Address: upload_flag			ftp:GetRemoF			
	Span High: 1.0			ftp:LocaName			
	Span Low : 0.0			ftp:LocaPath			
				ftp:LocaSize			
	Value: 1			ftp:LocaTime ftp:RemoName			
	varace 1			ftp:RemoPath			
				ftp:RemoSize			
				ftp:RemoTime			
				ftp:UpFile ftp:UpLodF			
				ICD:ODLOGF			-
						. D40	
				I/O Tag	V:	iewDAQ	
				Accumulation	Port 1	Port 4	
				Calculation	Port 2	Port 5	
	Goto Change	Acknowledge	Exit	Constant	Port 3	Port 6	

Figure 15: ftp:UpLodF tag

Note: tag value will return to 0 after the file uploads to FTP server.

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14. Result:

The manage.asp file is successfully uploaded to "test" folder in Advantech FTP Server



Figure 16: upload completed

Notes:

1. ftp:LocaPath tag value allows to have space.

1	Point Info				
	Tag Name: ftp:LocaPath	ftp:LocaPath			
	Description: ::Local file path for the FTP download, upload	ftp:DelLocaF			-
	, delete, get	ftp:DelLocar			
	Tag Type: TEXT	ftp:DLocFile			
		ftp:DownFile			
	Scan Type: CONSTANT SCAN	ftp:DownLodF			
	Port: 1 Unit: 0	ftp:DRemFile			
	Device Name: ftp	ftp:GetLocaF			
	Address: local path	ftp:GetRemoF			
		ftp:LocaName			_
		ftp:LocaPath ftp:LocaSize			-
	Value: C:\my file	ftp:LocaTime			
		ftp:RemoName			
		ftp:RemoPath			
		ftp:RemoSize			
		ftp:RemoTime			
		ftp:UpFile			
		ftp:UpLodF			-1
		I/O Tag	V	'iewDAQ	
		Accumulation	Port 1	Port 4	
		Calculation	Port 2	Port 5	
	Goto Change Acknowledge Exit	Constant	Port 3	Port 6	

2. ftp:RemoPath tag value allows to have space.

Point Info						
Tag Name: ftp:RemoPath			ftp:RemoPath]
Description: ::Remote FTP path for	r the FTP downl	oand unloa				
d, delete, get		Juna, aproa	ftp:DelLocaF			
			ftp:DelRemoF ftp:DLocFile			
Tag Type: TEXT			ftp:DLocFile			
Scan Type: CONSTANT SCAN			ftp:DownLodF			
Port: 1 Unit: 0			ftp:DRemFile			
Device Name: ftp			ftp:GetLocaF			
Address: remote path			ftp:GetRemoF			
Address: remote_path			ftp:LocaName			
			ftp:LocaPath			
Value: abc 123			ftp:LocaSize			
Value: abc 125			ftp:LocaTime			
			ftp:RemoName			_
			ftp:RemoPath ftp:RemoSize			
			ftp:RemoSize			
			ftp:UpFile			
			ftp:UpLodF			_
						-
			I/O Tag	V	iewDAQ	
			Accumulation	Port 1	Port 4	
			Calculation	Port 2	Port 5	
Goto Change	Acknowledge	Exit	Constant	Port 3	Port 6	



3. ftp:UpFile tag value allows to have both space and Chinese word.

F	Point Info	15					
	Tag Name: ftp:UpFile Description: ::File name to sa nly Tag Type: TEXT Scan Type: CONSTANT SCAN Port: 1 Unit: 0	ve in a remote fil	.e. – name o	ftp:UpFile ftp:DelLocaF ftp:DelRemoF ftp:DLocFile ftp:DownFile ftp:DownLodF ftp:DremFile			
	Device Name: ftp Address: upload_file 			ftp:GetLocaF ftp:GetRemoF ftp:LocaPath ftp:LocaPath ftp:LocaSize ftp:RemoTime ftp:RemoTime ftp:RemoSize ftp:RemoTime			
				ftp:UpFile ftp:UpLodF I/O Tag Accumulation Calculation	Port 1 Port 2	iewDAQ Port 4 Port 5	
	Goto Change	Acknowledge	Exit	Constant	Port 3	Port 6	

4. Result in FTP

😋 🔵 🗢 📜 « ft	o.advantech.com.tw → abc 12	23 🔻 🍕 <i>搜尋 ab</i> 🔎
組合管理 ▼		UF - 0
■ 桌面	^ (X-)	
🎬 媒體櫃	total -	- 複製.xlsx
退 文件		
音樂	*	

Reference: