

If this is your First-Time-use of FaxScanTM (VBA038) application along with PacketScan (PKV104), then we recommend you follow all the steps explained in FaxScanTM (VBA032 & PKV104)-Quick-Install-Guide to install FaxScanTM application before proceeding with the steps below.

FaxScanTM works with PacketScan as well as independently (as DOS command line), in this scenario we are working on the DOS command line interface.

Quick Checkout using batch files

FaxScan[™] is an executable that runs in a Windows[®] command-line and can be called directly, using Batch files, or manually using command client's software test environment.

- Open command prompt (Windows® Start→All Programs→Accessories→Command Prompt) and change the present working directory to the installation path. (Type CD C:\Program Files\GL Communications Inc\FaxScan)
- For TDM based Fax test (VBA038) -
 - Run test_pcm.bat
 - This will run FaxScan on all the sample files that have been provided with the installation under "C:\Program Files\GL Communications Inc\FaxScan\vectors\pcm_vectors".
 - Creates "unittest\pcm" output folder in the installation directory. Under the "unittest\pcm", there should be 20 ladder files and 17 image files.
- For IP based Fax test (PKV104) (Includes SIP and T.38) -
 - Run test_sip.bat
 - This will run FaxScan on all the sample files that have been provided with the installation under "C:\Program Files\GL Communications Inc\FaxScan\vectors\SIP_vectors" folder.
 - Creates "unittest\sip" output folder in the installation directory. Under the "unittest\sip" folder, there should be 13 fax ladder files, 13 SIP ladder files, 12 image files.
- This output folder will have the "*.sip_ladder, *.fax_ladder" and "*.tiff" files for the analyzed sample files.
- **"*.ladder**" is a text file that shows the complete fax call analysis result and can be opened with any text editor like Notepad®.
- **"*.tiff**" is the image that has been transmitted/received over the FAX call.

Quick Checkout using Command Line usage of FaxScan™

- Open Windows® command prompt (Windows® Start→All Programs→Accessories→Command Prompt) and change the present working directory to installation path. (Type CD C:\Program Files\GL Communications Inc\FaxScan\bin in the command line)
- Run **FaxScan.exe** to see the help text/syntax for FaxScan command as shown in the figure below:

Administrator: C:\Windows\syste	em32\cmd.exe		
C:\Program Files\GL Comm Please select a mode of FaxScan (G.711 & T.38) &	unications Inc-RexScan/FaxScan.exe operation. PCM UI.16 GL Communications Inc, 2013		
Usage:			
FaxScan MODE [-s <cng_pcm file=""> [-r <cld_pcm file="">] -e <alaw!mulaw!lin16!lin13>] [-f <pcap file=""> -v <0!1!2!3> -a <src_ip:src_prt> [-b <src_ip:src_prt>]] -r</src_ip:src_prt></src_ip:src_prt></pcap></alaw!mulaw!lin16!lin13></cld_pcm></cng_pcm>			
FaxScan operates in three modes, pcm file processing, single t.38 call, and SIP + T.38/RIP analysis.			
The options are:			
MODE: is one of the keywords PCM, T.38 or SIP. This defines the operating mode. Each mode has its own set of switches:			
PCM MODE switches:			
-f <pre>pcn file> -s <pre>pcn file> -e <pre>pcn encoding> -k -h</pre></pre></pre>	- One side or dual side recording - Second File for dual recordings - alaw, mulaw, lini6 < 16 bits left justified pcm>, Lini3 < 13 bits samples right justified in 16 bit word) - Koop heterpetikes pon file in pour file is converted - Koop heterpetikes filer to remove 60ks to ness		
I.38 MODE switches: -f <pcap file=""> -v <0!112!3> -a <src_ip:src_prt> -b <src_ip:src_prt></src_ip:src_prt></src_ip:src_prt></pcap>	- Pcap with T.38 only in it - Version of 1.38 used in the capture - Address of the calling terminal traffic. - Address of the called terminal traffic. (Optional)		
SIP MODE switches:			
-f <pcap file=""> -c <n1,n2,n3></n1,n2,n3></pcap>	- Containing SIP traffic, T.30 and RIP traffic. One or more numbers of calls in the capture to analyze. This should be a comma delimited list with no spaces. Example: - c 5,7.9 will process the Sth 7th and Yth calls in the capturec 5 would only process the Sth call.		
Switches for all modes: -p -o <out file="" format=""> -1</out>	- Generate ladder diagrams of SIP and fax traffic. - File name format for presult. Xn will be replaced with the number of the call in the file. Example: -0 OutFileXn will write files with the format OutFile.ORLLMOI_1.tif OutFile.GNLLMOI_1.fax_ladder etc. - Generate Log Files.		



• Command to run FaxScan over PCM files is shown below:

C:\Program Files\...\FaxScan\bin > FaxScan.exe PCM -f vectors\pcm_vectors\v34_31200_RX.pcm -s vectors\pcm_vectors\v34_31200_TX.pcm -e lin16,

All the three output files will be created on the same folder with "*.sip-ladder", "*.fax_ladder", and "*.tiff"

Where:

PCM = Mode of execution

- -f =first file input -- v34_31200_RX.pcm
- -s = second file input -- v34_31200_TX.pcm
- -e = encoding in lin16-linear 16 (other encoding options supported are mulaw, alaw, lin13)

C:\Program Files\GL Communications Inc\FaxScan>FaxScan.exe PCM -f vectors\pcm_vectors\v34_31200_RX.pcm -s vectors\pcm_vectors\v34_31200_TX.pcm -e lin16 fmt: lin16 lowerfmt:lin16 type arg:lin16

- Wrote fax ladder: unittest\PCM\v34_31200_TX.fax_ladder Wrote TIFF image: unittest\PCM\v34_31200_TX.tif
- Command to run FaxScan over SIP files is shown below:

C:\Program Files\GL Communications Inc\FaxScan\bin > FaxScan.exe SIP -p -f vectors\SIP_vectors\rtp.pcap,

User can view the output files on the same folder with "*.sip-ladder", "*.fax ladder", and "*.tiff"

Where:

- SIP = Mode of execution
- -p = Indicates to create ladder for SIP and fax traffic
- -f = Input file for fax analysis -- rtp.pcap

C:\Program Files\GL Communications Inc\FaxScan>FaxScan.exe SIP -p -f vectors\SIP_vectors\bad_fax_call_8_cal_test.p Total Calls Discovered: 1	cap
Call #1 ID: 1898983871622000232540192.168.30.105 Wrote SIP ladder: unittest\PCM\bad_fax_call_8_cal_test.pcap.CALL001.sip_ladder	
Call #1 Segment #1 Media: T.38 Processing Called Media	

- For the detailed and complete command lines, refer to the FaxScan User Manual
- If you are still having issues or have other questions call GL Communications Inc. @ 301 670 4784.

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