Connect the logger before installing the software.

Install the Service software:

Select model of logger to install. *Note the F16 and F16W are different models. The F16W has an LCD in the front.

👸 Add device(s)		-		×
MIL-F16W 16 Channel USB 2.0 Logge	er	~	×1	~
None MIL-F8 8 Channel USB Logger MIL-F16 16 Channel USB Logger				
MIL-F24 24 Channel USB Logger MIL-F16W 16 Channel USB 2.0 Logge	er			
MIL-11 24/48 Channel 11 USB Logge MIL-TEST Test Audio Logger MIL-VoiceIP Audio Logger	۲ 			
				_
	UK		ancel	

If more than one device is being installed in the same computer, set the number here.

etup - DLI Audio Logger 3.4.1.0		—		\times
select Components				
Which components should be installed?				R
Select the components you want to install; clear the components install. Click Next when you are ready to continue.	ponents yo	u do not	want to	
Server software		6	2.1 MB 🖌	
Client software		1	1.6 MB	
MIL-F8 8 Channel USB Logger		10	0.1 MB	
MIL-F16 16 Channel USB Logger		10	0.1 MB	
MIL-F24 24 Channel USB Logger		10	0.2 MB	
MIL-F16W 16 Channel USB 2.0 Logger		14	4.1 MB	
MIL-T1 24/48 Channel T1 USB Logger		18	8.7 MB	
MIL-TEST Test Audio Logger		1	5.9 MB	
MIL-VoiceIP Audio Loager			3.7 MB	1
Current selection requires at least 64.5 MB of disk space.				
< Back	Nex	t >	Car	ncel

While not absolutely necessary, we recommend installing the client software (selected by default) to allow you to configure and see the status of the logger.

🕞 Setup - DLI Audio Logger 3.4.1.0	_	
Select Additional Tasks Which additional tasks should be performed?		
Select the additional tasks you would like Setup to perform while in Logger, then click Next.	stalling DL	.I Audio
Create a desktop icon		
Reset logger settings to default		
Start Audio Logger automatically		
Disable automatic disk deaning		
< Back Ne	ext >	Cancel

Reset logger settings to default: Any settings previously set will be overwritten with default settings. This must be checked for the first installation. If upgrading software version, leave this unchecked.

Create a desktop icon: This will create icons con the desktop for your convenience.

Start Audio Logger automatically: The logger will run immediately after installing and automatically when the computer starts.

Disable automatic disk cleaning: This disables the automatic purging of old recordings. You must manually ensure that the disk does not run out of space if this option is selected.

Some older operating systems such as Windows 7, Windows 8, Server 2008 or even Window 10 32-bit may show this warning:



Please choose the path t	o store logged audio files	
Please note: Using sy There is not enough s We recommend a min	stem drive to store audio file space to record audio on the nimum disk size of 10GB per	es is not recommended! drive you selected. line. You have 5692 Mb
Storage path:	CEVLOGGER AUDIO	Browse
Disk <mark>s</mark> ize:	238372 Mb	
Free space:	126488 Mb	
Minimum disk free space:	12648 Mb	

Select the drive to where you would like the recordings stored. It is recommended to use a secondary drive for recordings of at least 10GB per channel, however it is not required. The warnings on the example above are simply recommendations.

If you are updating the version of recording software, it is normal to get a warning about the disk size or disk space. The software does not yet know that recordings already exist on the drive.

🔂 Setup - DLI Audio Logger 3.4.1.0 —		\times
Ready to Install Setup is now ready to begin installing DLI Audio Logger on your computer.		Ð
Click Install to continue with the installation, or click Back if you want to review change any settings.	v or	
Destination location: C:\Program Files (x86)\Digital Loggers Inc\DLI Audio Logger		
Setup type: Full installation		
Selected components: Server software Client software MIL-F 16W 16 Channel USB 2.0 Logger		
Start Menu folder: Digital Loggers Inc\DLI Audio Logger		
	2	
< Back Install	Car	ncel

Now press the install button to begin the installation.

After a time, you will be prompted to plug in and power on the device. This should go away quickly if the device is already powered on and connected.

Start the DLI Service Manager and verify that the services are running. If not, start them by clicking the *Start All* button.



Verify that the Integration Utility shows that everything is ok.



Error Def	tected	
R	3%	٩

Double-click on the icon to display the utility on the screen. Select the Logger Configuration icon on the left

9			DLI Logger	Integration	n Utility 📃 🗖 🗙
File Settings	Help			_	
localhost	1	VOX	PD Channel 2	-18	11111111111111
	2	VOX	PD Channel 1	-1B	
S	3	VOX	Fire Channel 1	-16	
Instant Logger	4	VOX	Fire Channel White	-30	
~	5	VOX	Fire Channel 3	-17	
	6	VOX	Public Works Channel 1	-30	•
.ogger Event Log	7	VOX	Public Works Channel 2	-30	*
	8	VOX	Position 1	-27	· · · · · · · · · · · · · · · · · · ·
1	9	VOX	Position 2	-5	
	10	VOX	Position 4	-25	
Purge Utility	11	VOX	Position 3	-24	
	12	VOX	Position 5	-26	
S	13	VOX	PD Tac	-18	
Logger Configuration	14	VOX	Position 3 (2)	-26	
	15	VOX	Woodlake	-30	X
	16	OFF	Lindsay	-25	111111

Adjusting when recording occurs - Manual VOX trigger level

Note the state of the channels. When the audio level bars are non-existent or not colored, no recording is occurring. If the bars are green, yellow or red, recording to a file is occurring. Be sure that the bars are not colored when no audio is present. If there are no bars, observe the color of the dBM number (the negative numbers to the left of the bar. E.g.: -30). If it is yellow, it is recording. If white, the channel is not recording.

It is normal for there to be a delay in the screen and the coloring. This application runs at a lower priority than the recording services.

On DLI Audio Loggers without automatic gain control such as the MIL-F8 and the MIL-F16, the volumes knobs on the unit (gain controls) and VOX trigger level in LoggerConfig will need to be adjusted. Adjust the audio level so that touch tones cause the recorder bars to go well into the red. Recording will continue and the bars will be colored after the last audio signal until the timeout has expired.

When the lines are quiet, set the VOX Trigger Level so that the recording is not triggered (white) but audio causes the recording to start. You may need to adjust the VOX Trigger Level again. Adjusting these levels correctly is required for proper Caller-ID and DTMF decoding.

With the FXX series of loggers, Complex Mode (CMP) may be used if the phone lines are wet lines. These lines will have 48VDC. Picking up the phone line or a noise (such as ringing) will trigger recording. This mode is recommended for wet lines. The VOX trigger level may be set a little higher since only ringing needs to be detected to start recording. Ringing must be recorded to decode caller-ID since the caller-ID is transmitted between the first and second rings.

ADDITIONAL INFORMATION:

Trigger Mode summary

VOX - Voice Activated Recording. Detected audio starts recording. Recording continues until the timeout. Disable (OFF) - Nothing will be recorded to this channel.

Complex (CMP) - Either low DC voltage detected **or** audio will trigger recording. (Normal on-hook voltage is 48VDC) LoopStart (LPS) - Recording will occur while DC voltage is low. (Normal on-hook voltage is 48VDC) Continuous (CNT) - Recording will always occur. Max file size is determined by the Minimum Call Length setting. External (EXT) - Recording will occur when the relay is closed, telling the logger that the phone is off-hook. This requires a system that supports contact-closure. *Only 24 channel loggers support this feature.

Clicking on the line number will open Windows explorer to the recording directory if there are recordings. Right-click on the "mode" to change the recording mode. Click on the Line Name to change the name of the recording folder. Using the mouse you can drag the VOX trigger level to the appropriate location.

Logger Configuration Wizard

The Logger Wizard that can help in the initial configuration and is available here: <u>http://www.digital-loggers.com/downloads/</u>

LINE SETTINGS

DLI Logger In	ite eln	gration Utility									×
localhost	ſ		Sum	mary Setting	js Table			1	Section	n Editor	
	F	Use classic dB	Enable using V	Create warnin	Purge mode	Purge Interval	Minii 🔺	De	evice01Line02		•
	Þ	Yes	No	No	Simple	1	5722	Ī			
		Section Name	Device Type					Ĭ	i Ż↓ 🖾		
Instant Logger	Þ	device01	f16						Common Call A	nalysis Settings	
		Section Name	Line Name	Trim Silence	Storage Path	Pre-Record Ti	Enal		Enable Call Analy	No	
	Þ	Device01Line0	BUR GROUN	-100	LocalPath	0	No		File Settings		
		Device01Line0	BUR TOWER	-100	LocalPath	0	No		Line Name	BUR TOWER 118.7	/
		Device01Line0	APPROACH 1	-100	LocalPath	0	No		Pre-Record Time	0	
Logger Event Log		Device01Line0	DEPARTURE	-100	LocalPath	0	No		Storage Path	LocalPath	
		Device01Line0	DEPARTURE	-100	LocalPath	0	No		Trim Silence	-100	
		Device01Line0	ATIS 134 5	-100	LocalPath	0	No		Recording Settin	gs Vov	
		Device01Line0	FLT 121 5	-100	LocalPath	0	No		Mode WOX Timesut	12	-
A CONTRACTOR		Device01Line0	TOWER HELL	-100	LocalPath	0	No		Vox Trigger Level	-25	•
Purge Utility		Device01Line0	Line09	-100	LocalPath	0	No		vox migger Lever	-25	
		Device01Line1	Line10	-100	LocalPath	0	No				
		Device01Line1	Line11	-100	LocalPath	0	No				
200		Device01Line1	Line12	-100	LocalPath	0	No				
		Device01Line1	Line12	-100	Local Path	0	No				
Logger		Device01Line1	Line14	-100	LocalPath	0	No				
Configuration		Device01Line1	Line 14	-100	LocalPath	0	No				
		DeviceOrLine1	Line10	100	LocalPath	0	No				

Line Settings			
Common Call Analysis			
Settings	Options	Default	Explanation
			Enable or disable decoding DTMF and Caller ID from the audio. This must be OFF for a
Enable Call Analysis	Yes, No	No	I1-PRI
DTMF Settings	Options	Default	Explanation
DTMF Interdigit Delay DTMF Interval DTMF Start Interval		5.0 30.0 30.0	Do not change Do not change Do not change The level at which audio will start decoding touch-toned (DTMF). Set too low (toward - 30) can cause erroneous numbers/letters.
DTMF Threshold	-301	-7	Set too high and DTMF may not be decoded.
File Settings	Options	Default	Explanation
Allocated Days	1-9999		Number of days allocated for recording. No less that this number of days will be available in this channel. This is disabled until there is history. Amount of storage reserved for this channel. The purge will never delete this amount of data.
Line Allocation (MB)	1-9999999999 Any Legal Folder Name (up to 32		Tignored if SimplePurge is selected in the system settings. (version 3.2.3.0 or later) The name of the recording folder for the channel. All line names must be unique.
Line Name Pre-Record Time	characters)	Linexx	The number of seconds to pre-record
(seconds)	0-9	0	The Storage Beth defined in Storage Bethe
Storage Path	LocalPath	LocalPath	settings.
Trim Silonoo	dischlad 20 to 1	disabled	I he level below which any audio will be
Recording Settings		Default	Explanation
Mode	VOX, Disable, Complex, LoopStart, Continuous	VOX	 VOX - Voice Activated Recording. Detected audio starts recording. Disable - Nothing will be recorded to this channel. Complex - Either low DC voltage or detected audio will trigger recording. LoopStart - Recording will occur while DC voltage is low. Continuous - Recording will always occur. Max file size is determine by the Minimum Call Length setting Note: Not all modes are available on all loggers.
VOX Timeout	0-99	20	How long after the last audio is detected that

			the logger should quit recording.
VOX Trigger Level	-30 to -1	-30	The level at which audio will start recording. Used to determine the method of determining an off-book condition on a T1
			line. When this pattern corresponds to channel signaling bits, data will be logged.
			Symbols can be 0, 1 or X. 0 means that the signaling bit must be 0, 1 means that the
SignPattern	4 characters (x, 0, 1)	11xx	signaling bit must be 1 and X means that the signaling bit can be either 0 or 1.

CUSTOMIZING THE CONFIGURATION SCREEN

Several setting can be shown or hidden by selecting the options from the settings screen.

🚳 D	LI Logger I	nte	egration Utili	ty												×
File	Settings H	elp														
	Enabling/	Disa	abling Summary T	able Pa	ram	eter		Sottir	nge Tablo				-	Section Edito		-
	Enabling/	Disa	bling Section Edi	tor Para	amet	ter		Jetti	iga rubic					Jection Luit		
		1	Section Name		Rec	ording M	ode	Т	1 Туре	Con	nbining Mode	E	^	Line01		-
C		•	USB2T1		Com	nbine		15	DNPRI	Or		Ν				1000
			Device Type		Pur	ge Interv	al Mi	inimur	n Disk Free Spa	ice	Logging Drive	F				
Inst	tant Logger	•	USB2T1		1		23	847			С	n		Common Call Analysi	s Settings	
			Line Name	Line /	Allo	MB/Day	Days	s	Usage	Mod	e			Enable Call Analysis	Yes	
		•	Line01	1829		0	0	(D	vox				File Settings		
			Line02	1829		1	1829		1 MB/Day (182	vox				Days	0	-
			Line03	1829		1	1829		1 MB/Day (182	vox				Line Allocation (MB)	1829	_
Logg	er Event Log		Line04	1829		0	0	(0	vox				Line Name Stormen Dath	LacelDath	_
			Line05	1829		0	0	(D	vox				Trim Silence	disable	2
	{		Line06	1829		1	1829	1	1 MB/Day (182	vox				E Recording Settinge	uisable	
			Line07	1829		16	114	1	16 MB/Day (11	vox				Mode	VOX	
	ALL AND A		Line08	1829		19	96		19 MB/Day (96	vox				Signaling Pattern	11xx	
Pu	irge Utility		Line09	1829		0	0	(D	vox				Silence Byte	FF	_
			Line10	1829		0	0	(D	vox				VOX Timeout	20	
			1. 44	1000		1	•		n				*	and the second sec		
	C C					_										
	Longer															
Co	nfiguration															_
														Days		
			OGGERS, II	NC.		Save			Reload					Days		

Here I added "Enable Call Analysis" to the line settings screen.

E Configuration	×
😟 🔽 storage paths	~
- V Line Name	=
Line Allocation (MB)	
- 🗖 MB/Day	-
Days	
Usage	
Trim Silence	
Storage Path	
Enable Compression	
Days Not Compress	
MB Not Compress	
Silence	
Enable Check Threshold Auto Detetection	Y

Enabling Call Analysis - decoding incoming and outgoing phone numbers:

Section Editor - Line Settings:

Set Enable Call Analysis to Yes for each line. (Right-click and copy the settings to other lines) * Do not enable Call Analysis on a T1-PRI or it will overwrite the D_Channel decoding.

LOGGER SPECIFIC SETTINGS AND INFORMATION

F-XX (F-8, F-16, F-24, F16W)

device01								
2 ↓ ■								
✓ Device Settings								
	Device binding mode	Sticky						
	Device Type	MIL-F16W						
\sim	Internal Settings							
	Command device serial	FTWHPVTDB						
	Data device serial	FTWHPVTDA						

The serial numbers appear here. Some older models do not have serial numbers.

MIL-T1:

The Logger Configuration Wizard can help in the initial configuration and is available here: <u>http://www.digital-loggers.com/downloads/</u> The Wizard will set the below settings for you

The lights on the logger will not flash green until the application is running and in synch.

MIL-T1 (Standard):

Decoding incoming Caller ID Enable call analysis as indicated above Section Editor - System Settings: File Settings: Set Number Field Content on Incoming Call to DTMF Set Number Field Content on Outgoing Call to Disable

MIL-T1 (PRI-ISDN) NI-2:

Decoding incoming DID (possible if the PRI signaling contains DID numbers) Section Editor - System Settings:

File Settings: Set Number Field Content on Incoming Call to Called Set Number Field Content on Outgoing Call to Calling

Go to the Section Editor select USB2T1 from the drop-down list In the Signaling Section, set **PRI VOX Mode** to **D_Channel**

localhost				Summa	arv Set	tinas Table	Section Editor					
		Summary Settings Tuble								Controll Editor		
		Section Name	net C	coraing M	ode	птуре	Con	ibining wode	- ^	Line01		*
	1	Device Tree	Con	nbine	I MILTO	ISUNPRI Diele Free Cou	Ur	Louise Drive	N			
Instant Logger		Device Type	Pu	rge interva		ium Disk Free Spa	все			●== Z * ===		
instant Logger	P	USB211	USB2T1 1 23847			C	n	Common Call Analysis Settings				
~~		Line Name	Line Allo	MB/Day	Days	Usage	DOM	8		Enable Call Analysis	Yes	
		Line01	1829	0	0	0	VOX				0	
		Line02	1829	1	1829	1 MB/Day (182	VOX			Line Allocation (MR)	1929	
ager Event Log		Line03	1829	1	1829	1 MB/Day (182	vox			Line Name	line01	
gger Event Log		Line04	1829	0	0	0	VOX			Storage Path	LocalPath	
		Line05	1829	0	0	0	VOX			Trim Silence	disable	
1		Line06	1829	1	1829	1 MB/Day (182	VOX			Recording Settings		
		Line07	1829	16	114	16 MB/Day (11	VOX			Mode	VOX	
100		Line08	1829	19	96	19 MB/Day (96	VOX		~	Signaling Pattern 11xx	11xx	
rurge Utility		Line09	1829	0	0	0	VOX			Silence Byte	FF	
		Line10	1829	0	0	0	VOX			VOX Timeout	20	
		line11	1829	0	0	0	VOX					
1 COR				_					<u> </u>			
122	10											
Logger	1 (▲・)										
Configuration		DU										
	l n	IGITAL								Enable Call Analysis		
	1.5	IOTHE		Save		Reload				Enable call analysis.		

T1 SETTINGS:

DLI Logger I Eile Settings He	nto eln	egration Utili	ty									
localhost	F		Summ	ary Setti	ings Table		Section Editor					
(F	Section Name Recording Mode T1 Type T1 VOX Mode							USB2T1			
	Þ	USB2T1 Combine			Standard Signaling I							
		Device Type	Number	of Dev En	able Postgr Env	able using V Create w						
Instant Logger		usb2T1 1		No No		No		🗆 Internal Settings				
		Line Name	Line Allocation	MB/Day	Allocated Days	Usage	Pre-R		Recording Mode	Combine		
	Þ	Line01	527	54	9	54 MB/Daví	0	 PRI Settings DID Filter Numbers DID Filter Type 	PRI Settings			
		Line02	527	28	18	28 MB/Dav (0		DID Filter Numbers			
		Line03	527	11	47	11 MB/Dav (0		DID Filter Type	Disable		
Logger Event Log		Line04	527	4	131	4 MB/Day (1	0		East D-Channel	24		
		Line05	527	0	0	0	0		East Gain	0.0		
2 A A		Line06	527	0	0	0	ů l		East ISDN Side	Network		
		Line00	527	0	0	0	0		EnableISDNTrace	No		
		Line07	527	0	0	0	0		Interface ID			
Purge Utility		Lineuo	527	0	0	0	0		ISDN Trace Directory Name	C:\LUGGER AUDIU\D_Channel_Trace		
		LineU9	527	0	0	0	0		Log Inbound Lalls	Yes		
		LineTU	527	U	0	0	0			Yes		
		Line11	527	U	0	U	0		West D-Channel	24		
		Line12	527	0	0	0	0		West Gain	0.0		
		Line13	527	0	0	0	0	-		User		
Configuration		Line14	527	0	0	0	0		Signaling Settings	0		
-		Line15	527	0	0	0	0		Combining Mode	Ur Trianad and		
		Line16	527	0	0	0	0		Cilman Bide			
		Line17	527	0	0	0	0		Silence Byte	FF.		
		Line18	527	0	0	0	0			Standard Circuit and		
		Line19	527	0	0	0	0 🗸	TT VOX MODE	signaling			
	<						>					
		DI DI DIGITAL LOGGERS, II	NCS	ave	Reload			F T a	PRIVOX Mode The setting defines ISDNPI sig audio level exceeds defined t	gnaling type: (TriggerLevel) recording when ay VOXTriggerLevel setting level, (Silence)r		

T1 SETTINGS EXPLAINED:

USB2T1			
Internal Settings	Options	Default	Explanation
			Records both sides of conversation in the
			same presents record (Combine) or each side
RecordingMode	Normal, Combine	Combine	separately (Normal).
Signaling			
Settings	Options	Default	Explanation
			This setting defines T1 signaling type. The
			possible types are: (Standard) - using T1
I1 Iype	Standard, ISDNPRI	Standard	robbed bits and
			(ISDNPRI) starting recording when audio
			level is higher than predefined level (or D-
	T is a large local of the second		Channel signaling).
	I riggerLevel, Silence,	Triggert aval	Defines ISDNDDI signaling type
PRI VOA IVIOUE	Constant, D_Channel	ringgerLevel	Dennes ISDNPRI signaling type.
			avaged the VOXTrigger evel acting
			Silongo: Records when the signal differe from
			the value defined in Silence Pute setting
			Constant: Records when the signal changes
			D Channel: Records when the connection in
			D-Channel. Records when the connection is established by D-Channel PPI signaling
			Defines T1 signaling type: (Sign) Records
	Signaling		when the T1 signaling type. (Sign) Records
T1 VOX Mode	Signaling and Level	Signaling	appears
	olghaing_ana_cover	Olghainig	(Sign and Level) when T1 signaling hits
			combination appears or when audio level
			exceeds defined by VOXTriggerLevel setting.
			This setting defines how the east and west
Combining Mode	Or, And, East, West	Or	signaling are summed.
y			This setting defines value of signal, which
Silence Byte	00-FF	FF	accepted as a silence for the Silence mode.
PRI Settings	Options	Default	Explanation
	•		Type of side of PRI interface on the east T1
East ISDN Side	Network, User	Network	line.
			Type of side of PRI interface on the west T1
West ISDN Side	Network, User	User	line
East D-Channel	1-24	24	D-Channel number on the east T1 line
West D-Channel	1-24	24	D-Channel number on the west T1 line.
EnableISDNTrac			
е	Yes,No	No	Enable ISDN Trace.
ISDN Trace	Any drive letter or		
Directory Name	*UNC path		Location where the ISDN trace is saved.
			If enabled, set will record calls only with
Interface ID	off,0-128	off	explicitly defined interface ID.
West Gain	-20-20	0	Add gain to west channels.
East Gain	-20-20	0	Add gain to east channels.
Log Inbound			
Calls	Yes,No	Yes	Enable to logging of inbound calls.
Log Outbound			
Calls	Yes,No	Yes	Enable to logging of outbound calls.
DID Filter	comma separated DID		List of DID numbers to record or not record
Numbers	list	empty	when DID Filter Type is set.

DID Filter Type	Disable, RecordOnly, DoNotRecord	Disable	The DID filter excludes from recording calls with certain DID numbers.It may filter calls in two modes
			RecordOnly, Record a call only with defined in the DID Filter Numbers setting DID numbers
			DoNotRecord, Don't record the calls with the set DID numbers.