ProCAP Transfer with Omneon Interface

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# **Transfer Omneon Overview**

The **ProCAP Transfer Application with Omneon Option** ensures accurate and consistent encoding of captions to video clips residing on an Omneon Networks Media Server.

The basic requirements for setting up an Omneon server and ProCAP Transfer system to support network encoding of captions are:

- compatible Omneon server system release contact Omneon support for the latest information
- ProCAP Transfer system networked to the Omneon server

Network communications must be setup and confirmed through **Configuration Settings** prior to encoding. Multiple Omneon servers can be selected to allow for parallel encoding over multiple identical systems for all operations.

Two encoding work-flows are supported:

- **Single Transfer** consists of selecting a caption file, followed by selecting the video clip to encode to. Encoding proceeds automatically at approximately four times real-time, subject to system setup and load.
- **Batch Transfer** consists of selecting multiple caption files to encode. Video clips must have the same file name to be successfully encoded. Encoding proceeds sequentially, with a status report generated at the end containing the status for individual file encodes.

The Transfer Utility supports the following caption file formats:

- ProCAP Transfer files opened directly
- WGBH TDS caption files, V1 and V2 opened with format conversion
- NCI caption files opened after transfer file render
- Cheetah .CAP version 2 binary caption files opened after transfer file render

No caption processing is done during transfer.

In order to import NCI and/or Cheetah files, Microsoft Office and ProCAP must also be installed into the Transfer system.

This manual highlights the Omneon specific support of the Transfer application. See the standard Transfer manual for more information regarding the basic operations of the Transfer application.

## Single Transfer

#### **Loading Transfer Files**

In order to load a transfer file into the transfer utility, you will first have to transfer the ProCAP caption file to a transfer file. If not done previously, the Creating a Transfer File section should be reviewed.

To open a transfer file:

- execute File → Open
- press the **Open File** E command button

and browse to the file you want to open and click the Open button, or select the file from the More Recently Used list from the bottom of the **File** menu.

The following file formats are supported by the Transfer Open operation:

- ProCAP Transfer files opened directly
- WGBH TDS caption files, V1 and V2 opened with format conversion
- NCI caption files opened after transfer file render
- Cheetah .CAP version 2 binary caption files opened after transfer file render

An Editor window will open with the selected transfer file and automatically load it, ready for encoding.

If the master dub and the recorded video are not of the same time code, you may have to change the time code in the transfer file. This can be easily accomplished with the Set New Time code command.

The transfer events can be loaded manually by:

- executing Transfer → Load
- pressing the Load 📠 command button

At this point all events are queued into the transfer process and the video clip to encode is requested.

### **Selecting the Video Clip**

The selection of the video clip to encode the contents of the loaded transfer file into is the last step before encoding starts. This step is normally automatic upon successful loading of a transfer file.

To manually select a video clip after opening and loading a transfer file, execute **Configuration**  $\rightarrow$  **Select Clip**.

The Omneon File Picker dialog is used to navigate the available video clips and select one to encode:



Available video clips for encoding are shown with an icon to the left of the filename:

blue for uncaptioned/unknown, red for incomplete, and green for captioning complete. The video clip icons are filled in at a slower rate, as the information is retrieved from the Omneon server.

Select **OK** to select the clip and start encoding. Before encoding actually starts, the system needs to know if the current encode is the last encode for the selected video clip.

Image: Contract of Cont	
<pre>'************************************</pre>	
<pre>\ Type: LTC \ Generated By: ProCAP Editor \ CaptionFile: \ MediaFile: \ Author:</pre>	
Vowner: Volume: Thursd Finalize encode Time: 3:31:2 Is this the last encode for this particular file?	
Yes No ******	
<pre>\ TC: 01:57:05;07 ¶+1420+1420+142E+142E+1470+1470Testing fonts in Table 1+142F+142F \ TC: 01:57:07;09 ¶+1420+1420+142E+142E+1470+1470!"#\$%&amp;'()*+,/§00+142F+142F \ TC: 01:57:10;12 ¶+1420+1420+142E+142E+1450+14500123456789+142F+142F \ TC: 01:57:11;13 ¶+1420+1420+142E+142E+1370+1370:;&lt;=&gt;?@§00+142F+142F \ TC: 01:57:13;03 ¶+1420+1420+142E+142E+1450+1450+1723+1723ABCDEFGHIJKLMNOPQRSTUVWXY \ TC: 01:57:15;15 ¶+1420+1420+142E+142E+1476+1476[\ ]^_`+142F+142F \ TC: 01:57:17;04 ¶+1420+1420+142E+142E+1450+1723+1723abcdefghijklmnopqrstuvwxy</pre>	(Z÷ (Z÷▼)
Line: 1/211 Col: 1/51 0% INS CAPS S/	AV //.

Answer **Yes** to indicate that the current encode is the last one, so that upon successful encoding the Captioning Complete flag is set. The default button is determined by the **Typical Number of Encoder Passes**, located on the **Omneon** tab in the **Configuration Settings** dialog. This allow the Enter key to be used for answering this dialog box for the majority of operations.

Encoding will normally start automatically after selecting **Yes** or **No**. To start the encoding process manually, see **Start Encoding**.

#### **Encode Properties**

Optionally, right click on a video file name to access its encode properties:

CC	ProCAP T	ransfer Utility - Re	ady to Load [!	5:\ProCAP\TestF	iles\procap-test			_	
CC	File Edit	Search Options	Transfer Configu	ration Window H	lelp			_	Ð×
D	2			-					
B	6	Omneon File Picke	r					×	1
		Server: 192.168	3.0.8	Befresh	ηκ	Cancel			
1.8	*****								-
К.	Title	Path: 192,168	3.0.8\fs0\clip.dir						
Ľ.	11000			1	12 2 2	1			
1	Versi	Filename	Start Time Code	End Time Code	Standard	Availability			
N	Channe		00.00.00.00	00.10.00.10	MORONALLY				
R	Rate:		de properties	00:10:00;18	MPEG Video				
Ľ.	Type.	1 minolin 01	00.00.00.00	00.00.03,23	MFEG VIGEO				
Ν.	Genera	1-minclip-01	00:00:00;00	00:00:00;00	Unknown				
1	Captic	1 minclip-02	00:00:00:00	00:00:00:00	Unknown				
12	Mediaf	1 minclip-04	00:00:00:00	00:00:00:00	Unknown				
k.	Author	2minclip-01	00:00:00:00	00:02:00:04	MPEG Video				
R	Owner	2min-clip-02	00:00:00;00	00:02:00:03	MPEG Video				
Ľ.	onne.	2-min-clip-03	00:00:00;00	00:02:00;03	MPEG Video				
1	Date:	2min-clip-04	00:00:00;00	00:02:00;03	MPEG Video				
Δ.	Time:	🛅 media. dir							
	k sk sk sk sk sk s	CC mpeg06a	00:00:00;00	00:00:24;07	MPEG Video				
		mpeg10a	00:00:00;00	00:02:00;03	MPEG Video				
		mpeg10b	00:00:00;00	00:00:06;06	MPEG Video				
Δ.	TC: (	mpeg-t1	00:00:00;00	00:00:00;00	Unknown				
1	TC: (	mpeg-t3	00:00:00;00	00:00:00;00	Unknown				
D.	TC: (	mpegt4	00:00:00;00	00:00:00;00	Unknown				
R	TC: C	mpeg-t5	00:00:00;00	01:00:03;17	MPEG Video				
R	TC: C	mpeg-t6	00:00:00;00	01:00:03;17	MPEG Video				Ē
R	TC: C	CC mpg04a	00:00:00;00	00:00:16;18	MPEG Video				÷ •1
1		mpg05a	00:00:00;00	00:01:19;20	MPEG Video			-	
									F
Lir	ne: 1/2	211 Col: 1/51	0%			11:5	6 AM JINS	CAPS SA	× 11.

Click on **Encode properties** to open a detailed view of the properties for the given clip:

C ProCAP T	ransfer Utility - Re	eady to Load [!	5:\ProCAP\TestI	iles\procap-test-cc.txt]		
	Search Uptions	Transfer Configu	ration window	нер		- 미스
			<b>*</b>			
A OF	Omneon File Picke	:I'.				<u>×</u>
	Server: 192.16	8.0.8	Befresh	OK Cancel		
******				Clip Despection 10 sinclip 01		
V Title	Path: 192.16	8.0.8\fs0\clip.dir		chp Propercies - Tominchp-01		
in incre	-	1	-	Complete:		
Versi(	Filename	Start Time Code	End Time Code	- C Incomplete	Complete	
\ Chann∢						
\ Rate:	10minclip-01	00:00:00;00	00:10:00;18	- In Program:		
\ Type:	10-sec-clip	00:00:00;00	00:00:09;29	in rogiess.		
1 Conor	1 minclip-01	00:00:00;00	00:00:00;00	Field 1 Field 2 -	708 Services	
) Cantic	1-minclip-02	00:00:00;00	00:00:00;00			
\ Mediaf	1 minclip-03	00:00:00;00	00:00:00;00			
	1minclip-04	00:00:00;00	00:00:00;00	T T1 T3	□ S3 □ S7	
\ Author	2minclip-01	00:00:00;00	00:02:00;04	🗖 T2 🗖 T4	□ S4 □ S8	
\ Owner	2min-clip-02	00:00:00;00	00:02:00;03	🗖 🖂 🗖		
	2-min-clip-03	00:00:00;00	00:02:00;03		t six	
V Date:	2min-clip-04	00:00:00;00	00:02:00;03			
t time;	i media.dir			Properties:		
*****	mpeg06a	00:00:00;00	00:00:24;07		⊐ ⊢ 708 Services	
	mpeg10a	00:00:00;00	00:02:00;03			
	mpeg10b	00:00:00;00	00:00:06;06			
\ TC: (	mpeg-t1	00:00:00;00	00:00:00;00			
V TC: C	mpeg-t3	00:00:00;00	00:00:00;00			
TC: (	mpegt4	00:00:00;00	00:00:00;00		1 54 50	
N TC: 1	mpeg-t5	00:00:00;00	01:00:03;17			
N TC A	mpeg-t6	00:00:00;00	01:00:03;17			
N TC: C	mpg04a	00:00:00;00	00:00:16;18			+-1
•	mpg05a	00:00:00;00	00:01:19;20	<u>0</u> K	Cancel	
	32	1 martine from the				
Line: 1/2	11 Col: 1/51	0%		11	:57 AM JINS JCAPS	SAV /

The Complete flag can only be set after a successful last encode. The remaining flags are set according to the contents of the transfer file encoded, In Progress during the actual encode session, followed by setting the Properties after a successful encode.

#### **Encoding Errors**

Errors that prevent encoding are flagged as soon as a video clip has been selected. These errors include time code out of range errors, such as the following:



### **Encoding Done**

A status dialog appears when encoding is complete.

For example, the following file encoded correctly:

🚾 ProCAP Transfer Utility - Stopped Awaiting Start [procap-test-cc.txt]	
E File Edit Search Options Transfer Configuration Window Help	
\ Title:	
\ Version: 1.1 \ Channel: F1C1 \ Rate: 30d \ Type: LTC	
\ Generated By: ProCAP Editor \ CaptionFile: \ MediaFile:	
\ Author:       \ Owner:   Encoding Complete	
\ Date: Thursday, 0 Encoding Complete. \ Time: 3:31:21 PM	
'*************************************	
<pre>\ TC: 00:00:05;07 \ TC: 00:00:07;09 \ TC: 00:00:10;12 \ TC: 00:00:11;13 \ TC: 00:00:13;03 \ TC: 00:00:15;15 \ TC: 00:00:17;04</pre> OK 2E+1470+1470Testing fonts in Table 1+142F+142F 2E+1470+1470!"#\$%&'()*+,/§00+142F+142F 1+1420+1420+142E+142E+1450+14500123456789+142F+142F 1+1420+1420+1420+142E+142E+1450+14500123456789+142F+142F 1+1420+1420+1420+142E+142E+1370+1370:;<=>?@§00+142F+142F 1+1420+1420+1420+142E+142E+1450+1450+1723+1723ABCDEFGHIJKLMNOPQRSTUVWXY 1+1420+1420+1420+142E+142E+1476+1476[\ ]^_` +142F+142F 1+1420+1420+1420+142E+142E+1450+1450+1723+1723abcdefghijklmnopqrstuvwxy 1	YZ÷ yz÷▼
Line: 1 / 211 Col: 1 / 51 0% Complete! 11:54 AM INS CAPS S/	AV //

Select **OK** to continue. The completed transfer file must be unloaded before loading the next, or the Transfer application can be closed.

### **Start Encoding**

Once the transfer file has been loaded and the video clip selected, transfer encoding will normally start automatically.

The transfer encoding can be started manually by:

- executing Transfer → Start
- pressing the **Go** command button

Encoding progress is indicated on the bottom status bar by the current time code being encoded, along with the highlighting of the current event:

🖸 Pr	oCAP Tra	nsfer Ul	tility - Aut	o Proces	sing [pro	cap-test-o	c.txt]			
CC F	ile Edit	Search	Options 1	Transfer	Configuration	Window	Help			_ 8 ×
DIC		<b>B</b>	X 🗈			-				
B					, M m m l m	കക				
喧	<b>®</b>   <b>®</b>									
N T	C: 00	:00:10	;12 ¶÷	1420÷1	420÷142E	÷142E÷1	450÷145001234567	89÷142F÷142	?F	
N T	C: 00	:00:11	;13 ¶÷	1420÷1	420÷142E	÷142E÷1	370÷1370:;<=>?@§	00÷142F÷142	2F	
	C: 00	:00:13	;03 ¶÷	1420÷1	420÷142E	÷142E÷1	450÷1450÷1723÷17	ZBABCDEFGHI	JKLMNOF	'QRSTUVWXYZ÷
$\mathbb{R}^{+1}$	C: 00 C: 00	:00:15 •00:17	;10 ¶÷ ∵@4 ¶∸	1420÷1 1420÷1	420÷142E 470÷147E	÷142E÷1 -147E-1	4/6÷14/6[\ ]^ 450±1450±1772±17	÷142F÷142F 22phcdofgb:	iiklmnon	arcturar
IC ÷	C. 00 C. 00	.00.17 .00.19	,04 ¶÷ ⊡15 ¶÷	1420÷1	420+142E	÷142E÷1 ÷147E÷1	436÷1436÷1723÷17 476÷1476÷1777÷17	25abcuergn 77713~÷1478	:jktmnop ÷÷147E	iqi stuvwxyz*
K to	C: 00	:00:20	:21 ¶÷	1420÷1	420÷142E	+142E+1	354÷1354÷1723÷17	230800÷1130	)÷1130÷1	131÷1131÷11
N TO	C: 00	:00:22	;06 ¶÷	1420÷1	420÷142E	÷142E÷1	374÷1374÷1138÷11	38÷1139÷113	9÷1139÷	·1139÷1139÷1
1 T	C: 00	:00:24	;08 ¶÷	1420÷1	420÷142E	÷142E÷1	150÷1150Testing	fonts in Ta	able 2÷1	42F÷142F
<u>\ T</u>	C: 00	:00:25	;25 ¶÷	1420÷1	420÷142E	÷142E÷1	150÷1150A§00÷122	0E§00÷12210	)§00÷122	2U§00÷1223L
V T	C: 00	:00:27	;22 ¶÷	1420÷1	420÷142E	÷142E÷1	174÷1174÷1721÷17	21"§00÷1228	"§00÷12	2FA§00÷1230
	C: 00	:00:29	;16 ¶÷	1420÷1	420÷142E	+142E+1	258÷1258÷1721÷17	21U§00÷123E	3u§00÷12	3CU§00÷123C
	C: 00	:00:32	;06 ¶÷	1420÷1	420÷142E	÷142E÷1	150÷1150[§00÷132	9]§00÷132A/ 0=500÷132A/	(§00÷132	B'§00÷132C-
$\mathbb{R}^{+1}$	C: 00 C: 00	:00:34 .00:36	;ZI ¶÷ ∵14 ¶÷	1420÷1	420÷142E	÷142E÷1 -143E-1	1/6÷11/6A300÷133 354÷1354÷1733÷17	03900÷1331( 774566÷1331	/900÷133 /9500÷133	20900÷13333
IX ÷	C. 00 C. 00	.00.30 •00.30	,⊥4 1,⊤ יוס ¶∸	1420÷1	420÷142E	-142C+1 ∸147⊏∸1	2JA÷12JA÷1/23÷1/ 150∸1150End of f	ont testin	sag00÷15 r ∸147⊑∸	-147E
$\mathbb{R}^{+}$	C: 00	:00:38	:11 ¶÷	1420+1	470.1420	.1426.1	IDO.IIDOLIIG OF T	one testing	5 1421 .	1421
К т	C: 00	:02:59	:15 ¶÷	1420÷1	420÷142E	÷142E÷1	474÷1474POP ON T	EST FILE+14	12F÷142F	:
N T	C: 00	:03:01	;05 ¶÷	1420÷1	420÷142E	÷142E÷1	372÷1372All capt	ions below	are÷145	0÷1450posit
1 T	C: 00	:03:10	;29 ¶÷	1420÷1	420÷142E	÷142E÷1	470÷1470Test Cap	tion (L)÷14	12F÷142F	
1 T	C: 00	:03:12	;16 ¶÷	1420÷1	420÷142E	÷142E÷1	474÷1474Test Cap	tion (C)÷14	12F÷142F	:
1 T	C: 00	:03:14	;03 ¶÷	1420÷1	420÷142E	÷142E÷1	478÷1478Test Cap	tion (R)÷14	12F÷142F	
N T	C: 00	:03:15	;11 ¶÷	1420÷1	420÷142E	÷142E÷1	45A÷145ATest Cap	tion÷147A÷1	.47A÷172	1÷1721with÷
$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	C: 00	:03:17	;08 ¶÷	1420÷1	420÷142E	÷142E÷1	458÷1458÷1721÷17	21Test Capi	10n÷147	8÷1478÷1721
$\mathbb{R}^{+1}$	C: 00 C: 00	:03:21 .00.05	;16 ¶÷ ∵⊃4 ¶÷	1420÷1	420÷142E	÷142E÷1 -143E-1	450÷1450÷1/23÷1/ 474÷1474÷1755÷17	23Center PC	TACT CT	00÷14/0÷14/
$\mathbb{R}^{+1}$	C: 00	.05.25 .03.76	;24 ¶÷ ∵70 ¶∸	1420÷1	420÷142E	÷142C÷1 ∸147⊏∸1	4/4÷14/4÷1/23÷1/ 370∸1370∸1771∸17	23Indented 21The next	cot of	cantions te
$\mathbb{K}$ $\hat{\mathbf{D}}$	C: 00	:03:20	:10 ¶÷	1420+1	420:142E	÷142E÷1	157÷1157÷1773÷17	23Test Capi	ion (R1	1800÷147F÷1
K T	C: 00	:03:36	:29 ¶÷	1420÷1	420÷142E	÷142E÷1	172÷1172÷1723÷17	23Test Capi	ion (R2	)\$00÷142F÷1
Line:	35/2	11 Col:	1/188	8%		l	00:00:25;25	11:52 4		CAPS SAV

### **Stop Encoding**

To stop and abort the transfer at any time:

- execute **Transfer** → **Stop**
- press the **Stop** command button

The aborted file will be flagged as in progress and incomplete.

Unlike transfer encoding with an encoder, a normal Omneon transfer encoding session will stop automatically when done.

#### **Unloading Caption Files**

Once the transfer operation is stopped, the file can be unloaded from the queue by:

- executing Transfer → Unload
- pressing the **Unload** command button

Once the file has been unloaded, the file can be closed, saved and the Transfer Utility is closed.

### **Closing the Transfer Utility**

To close the transfer application, first stop encoding, followed by:

- executing File  $\rightarrow$  Exit
- pressing the **Close Application** command button on the top right of the window to close the Transfer Utility.

## **Batch Transfer**

#### **Selecting Transfer Files**

Batch transfer is used for encoding multiple caption files to video clips at one time. The files are processed in alphabetical order, one after another until all selected caption files have been encoded. A report is generated upon completion containing status for each clip encoded.

Batch transfer operates by matching the caption file names with the video clip names.

## Execute File $\rightarrow$ Batch Transfer, the following dialog appears for caption file selection:

CC ProCAP Transfer Utility - Ready to Load	
9. co	
Look in: 🔂 TestFiles 🗾 🖛 🖻 📅 🎫	
Image: SiEN.FLC       Image: proceptest-cc-florical-4min.txt         Image: SiEN.txt       Image: proceptest-cc-florical-5min.txt         Image: SiEN.txt       Image: proceptest-cc-florical-5min.txt         Image: SiEN.txt       Image: proceptest-cc-florical-5min.txt         Image: SiEN.txt       Image: proceptest-cc-florical-5min.txt         Image: SiEN.txt       Image: SiEN.txt         Image: SiEN.txt       Image:	
Line: 3000/3000 Col: 100/100 100% 12:03 PM INS CAP	s sav /

Select **Open** to batch encode the selected caption files. Processing begins immediately of caption files in alphabetical order. All files are processed before the final status report is generated.

The batch transfer operation can be aborted at any time by stopping the transfer process.

### **Encoding Done**

A status report is generated upon completion of batch encoding. All files encoded are included, with success or failure indicated.

The following sample report shows the file p5vn.txt encoded correctly:



The following sample report shows file procap-test-cc.txt encoded with an error:



The report files are text files that can be saved or discarded as required.

### **Stop Encoding**

To stop and abort the batch transfer at any time:

- execute **Transfer** → **Stop**
- press the **Stop** command button

The report generated will indicate what files were successfully encoded prior to stopping. The aborted file will be flagged as in progress and incomplete. Any unprocessed files will remain untouched.

### **Closing the Transfer Utility**

To close the transfer application, first stop encoding, followed by:

- executing File  $\rightarrow$  Exit
- pressing the **Close Application** command button on the top right of the window to close the Transfer Utility.

# Configuration

The Configuration menu is used to setup the basic operations of the Transfer application.

#### **Choose Encoder**

The **Choose Encoder** setting reflects the current target encoder for the Transfer application:

- EIA-608/CTRL-A standard hardware encoder connected through a serial port
- EIA-708 currently not available
- Omneon a networked Omneon server available for direct encoding
- **Network Encoder** standard hardware encoder connected through a network connection

ProCAP Transfer Utility - Ready to Load      File Configuration Help	
File Configuration Help   Choose Encoder EIA-608/CTRL-A   Select Clip EIA-708   Settings Omneon   Network Encoder	
Line: 3000/3000 Col: 100/100 100%	11:39 AM INS CAPS SAV

### Select Clip

**Select Clip** is available for browsing Omneon servers for available video clips, and for the manual selection of a video clip to encode:

P Transfer Utility iguration Help	- Ready to Load.					
mneon File Picke	er	No. of Concession, name				>
Server: 100.10	000			e 1 1		
192.16	8.0.8	<u>H</u> efresh	UK	Lancel		
Path: 192.16	8.0.8\fs0\clip.dir					
		1		-		
Filename	Start Time Code	End Time Code	Standard	Availability		-
	1001001001000	0000000000				
10minclip-01	00:00:00;00	00:10:00;18	MPEG Video			
10-sec-clip	00:00:00;00	00:00:09;29	MPEG Video			
1 minclip-01	00:00:00;00	00:00:00;00	Unknown			
1-minclip-02	00:00:00;00	00:00:00;00	Unknown			
1 minclip-03	00:00:00;00	00:00:00;00	Unknown			
1minclip-04	00:00:00;00	00:00:00;00	Unknown			
2minclip-01	00:00:00;00	00:02:00;04	MPEG Video			
2min-clip-02	00:00:00;00	00:02:00;03	MPEG Video			
2-min-clip-03	00:00:00;00	00:02:00;03	MPEG Video			
2min-clip-04	00:00:00;00	00:02:00;03	MPEG Video			
🚞 media.dir						
🛄 mpeg06a	00:00:00;00	00:00:24;07	MPEG Video			
🛄 mpeg10a	00:00:00;00	00:02:00;03	MPEG Video			
🛄 mpeg10b	00:00:00;00	00:00:06;06	MPEG Video			
mpeg-t1	00:00:00;00	00:00:00;00	Unknown			
mpeg-t3	00:00:00;00	00:00:00;00	Unknown			
mpegt4	00:00:00;00	00:00:00;00	Unknown			
🛄 mpeg-t5	00:00:00;00	01:00:03;17	MPEG Video			
🌉 mpeg-t6	00:00:00;00	01:00:03;17	MPEG Video			
💶 mpg04a	00:00:00;00	00:00:16;18	MPEG Video			
📴 mpg05a	00:00:00;00	00:01:19;20	MPEG Video			-
		-				-
0/3000 Col: 1	00/100 100%	10			11:41 AM INS	CAPS

See Selecting the Video Clip for more detailed information.

### Settings

Configuration **Settings** contain all of the default application settings. The settings are grouped into several different topics:

- Timecode Reader
- EIA-608 Encoder
- Computer Communications
- Omneon
- Network Encode

#### **Timecode Reader**

The Timecode Reader tab is primarily used for verifying the operation of an installed Adrienne time code reader. The **Timecode Rate** should be set to 30 drop frame for Omneon encoding, and to 30 non-drop frame for conventional EIA-608 encoding.

C ProCAP Trans	Transfer Configuration - TestEncode	
File Configuration	Computer Communications Omneon Network Encode	
	Timecode Reader EIA-608 Encoder	
		1
品 ● 🐨 🤇	Timecode Reader Source	
	Auto Source Selection Auto Detect VITC Lines	
	C LTC Only VITC Video Line 1: 12 🚔	
	- Status	
	Status	
	Timecode:	
	Source: Auto DLL Version: C2	
	Test	
	Direction: Forward Drop Frame: Off	
	Speed: VITC Line:	
	Timecode Rate: Timecode Cards:	
	30 Drooframe	
	Com	
	Save	
		1
	OK Cancel	
Line: 3000 / 300	ProCAP Transfer Application Version: 1.4 609	CAPS SAV
	Copyright(c) 1999-2003. All Rights Reserved.	CAPO DAV //

#### EIA-608 Encoder

The **EIA-608 Encoder** tab contains the encoder initialization settings and control settings and should be kept as the default settings. These are the common configuration strings for a Control-A protocol, or EEG Smart III, compatible encoder.

C ProCAP Trans	Transfer Configuration - TestEncode 🛛 🛛 🛛 🛛	
File Configuration	Computer Communications Omneon Network Encode	
	Timecode Reader EIA-608 Encoder	
品 ● 🐨 🤇	Encoder	
	Initialization: Topos or our provincials Internal Encoder Delay	
	(in video frames):	
	Encoder Start Laption Encoding Control Strings	
	Field1: ^A3 2 F1^M Field2: ^A3 2 F2^M	
	CC2: 1A32 C21M CC2: 1A32 C41M	
	Text1: ^A32T1^M Text1: ^A32T3^M	
	Text2: ^A32T2^M Text2: ^A32T4^M	
	Encoder End Caption Encoding Control Strings	
	Field1: COOMONIZ CHOM	
	CC1: <u>^C^M^A7 F1^M</u> CC1: <u>^C^M^A7 F2^M</u>	
	Text2: CCMCA7F1CM Text2: CCCMCA7F2CM	
	Encoder ^A2 Behavi	
	Communications Timed Out	
	Note: These settings are saved with each Computer Communications Profile.	
	OK Cancel	
	ProCAP Transfer Application	
Line: 3000/300	Copyright(c) 1999-2003. All Rights Reserved. Version: 1.4.608	CAPS SAV

#### **Computer Communications**

The **Computer Communications** tab is closely related to the **EIA-608 Encoder** tab. The serial port settings used to communicate with a conventional EIA-608 encoder are set here.

C ProCAP Trans	Transfer Configuration - TestEncode	
File Configuration	Timecode Reader EIA-608 Encoder	
	Computer Communications Omneon Network Encode	
<u>n Rei s</u>		
	Computer COM Port Settings	
	Port: COM1 V Baud Bate: 19200 V Stop: 1 V	
	Bits: 8 Parity: None	
	Test String:	
	Load Save Delete	
	OK Cancel	
Line: 2000 / 200	ProCAP Transfer Application	
Line: 30007300	Copyright(c) 1999-2003. All Rights Reserved.	CAPS SAV /

To ensure that the settings are correct, press the Test button. A dialog box should display with an asterisk (\*) as the encoder response.

COM Port Test	×
The response from the serial port w	as:
*	
ОК	

If the encoder is not properly connected, the dialog box will state that the serial port has timed out. This error can also display if the proper bit setting and parity is not set correctly.

COM Port	Test 🔀
8	The serial port has timed out. Please make sure that the encoder is connected to COM2
	ОК

You can perform an extended test by copying the initialization string from the Init box and pasting it into the test box. The following is an example result using an Evertz Encoder.

COM Port Test	×
The response from the serial port was:	
*	
Evertz 8074 Ver:CK87D2 R990329 Use ^AH{return} for I Port B	nelp
*	
*	
*	
ОК	

The encoder delay is the delay, in fields, that the encoder introduces to the stream. Consult the user manual or the vendor for the proper setting of this field.

#### Saving Changes

Once the encoder configuration has been set, you can save the changes into your own profile by typing in a profile name in the profile box and clicking on the

Save button. Changes can be saved to the default profile, but these may be over-written by software updates.

Click on the OK button to close the configuration menu.

#### Loading A Different Profile

If you have more than one encoder, you can switch between profiles by pulling down the profile combo box by clicking on the down arrow.

Profile:	Default	•
		_

This will display the all of the saved profiles. Highlight the profile you wish to load and click the load button.

#### **Deleting Profiles**

If you have more than one profile and wish to delete the uneeded profiles, pull down the profile combo box by clicking on the down arrow and choose the profile you wish to delete. Click on the delete button to delete this profile.

If you have deleted all of the profiles, the next time you start ProCAP a new default profile will be created.

#### **Network Encode**

The **Network Encode** tab contains the IP address of the selected encoder. The test button sends the same test string to the encoder as with the **Computer Communications** tab.

C ProCAP Trans	Transfer Configuration - TestEncode	×	
File Configuration	Timecode Reader	EIA-608 Encoder	
	Computer Communications C	Omneon Network Encode	
	IP Address:	<u>T</u> est	
	OK ProCAP Transfer Application	Cancel	
Line: 3000/300	Copyright(c) 1999-2003. All Rights Reserved.	Version: 1.4.608	CAPS SAV /

#### Omneon

The Omneon tab is used to set the Omneon server pool to be used for the Omneon encode operations. See the Omneon Network Setup section for more details.

## **Network Setup**

The **Omneon** tab in the **Configuration Settings** menu is used to setup the Omneon server pool to be used with all Omneon encode operations.

C ProCAP Trans	Transfer Configuration - TestEncode 🛛 🛛 💌	
File Configuration	Timecode Reader EIA-608 Encoder	
	Computer Communications Omneon Network Encode	1
	Omneon Server Configuration	
	Add Server:	
	Current Server(s): Server Address Default Clip Path	
	Test Highlighted       Set Highlighted       Bemove         Server Path       Highlighted         If more than one Omneon server is selected, the loaded transfer file will be encoded in parallel to all selected servers.       ***Please make sure that all selected servers have the identical video clip	
	Encode Options: Typical Number of Clear field 2 on Encoder passes: 1 + field 1 encode:	
	OK Cancel	
Line: 3000/300	ProCAP Transfer Application Version: 1.4.608 Copyright(c) 1999-2003. All Rights Reserved.	CAPS SAV

Two **Encode Options** set here affect all Omneon encodes.

The **Typical Number of Encoder Passes** sets the number of encode operations for a given video file before the **Last Encode** dialog defaults to the **Yes** command button when it appears for last encode confirmation. All encode passes before this setting will default to the **No** command button, to allow the Enter key to be used for

all normal operations. The last encode operation must be identified for the Transfer application to flag the given video file as complete when done. The default is one encoder pass, typically for encoding CC1 in field 1.

The **Clear Field 2 on Field 1 Encode** determines the state of CC3, CC4, T3, T4, and XDS on field 2 for a given video file during the encoding of field 1. The default setting is to clear all field 2 services during the encoding of CC1 in field 1.

The first operation in setting up a new Omneon server is to add the Omneon server into the available server pool. In the **Add Server** box, enter the IP address, or name, of the new Omneon server.

C ProCAP Trans	Transfer Configuration - TestEncode	×	
File Configuration	Timecode Reader EIA-608 Encoder		
	Computer Communications Omneon Network Encode		
		1	
	- Omneon Server Configuration		
	Childeon Server Conliguation		
	Add Server: 192.168.0.8 Add Test		
	Current Converted I		
	Current Server(s): Server Address Default Clip Path		
	Test Highlighted Set Highlighted Remove		
	Server Path Highlighted		
	If more than one Omneon server is selected, the loaded transfer file will be		
	encoded in parallel to all selected servers. ***Please make sure that all selected servers have the identical video clip.		
	- Encode Options:		
	Encode options.		
	Typical Number of Clear field 2 on		
	Encoder passes: I field 1 encode:		
		100	
	OK Cancel		
Line: 3000/300	ProCAP Transfer Application Version: 1.4.608		CAPS SAV
	Copyright[c] 1999-2003. All Rights Reserved.		//

The **Test** button can be used to confirm that the correct IP address or name has been entered, and that communications are operational.

C ProCAP Transl	Transfer Configuration - TestEncode EIA_608 Encoder	
File Configuration		
	Computer Communications Omneon Network Encode	
	Omneon Server Configuration	
	Add Server: 192.168.0.8	
	Current Server(s): Server Address Default Clip Path	
	T <u>e</u> st Highlighted Server Path Highlighted	
	Omneon connection test         Image: selected, the loaded transfer file will be ervers.           Sucessful communication!         ervers have the identical video clip	
	OK Typical Number of Encoder passes: 1 Transfeld 2 on field 1 encode:	
	OK Cancel	
Line: 3000/300	ProLAP Transfer Application Version: 1.4.608 Copyright(c) 1999-2003. All Rights Reserved.	CAPS SAV

File     Configuration       Configuration     Configuration	Transfer Configuration - TestEncode           Timecode Reader         EIA-608 Encoder           Computer Communications         Omneon         Network Encode	×	<u>_0×</u>
	Omneon Server Configuration       Add Server:     Add     Iest		
	Current Server(s): Server Address Default Clip Path 192.168.0.8 fs0\clip.dir		
	Test Highlighted       Set Highlighted       Remove         Server Path       Highlighted         If more than one Omneon server is selected, the loaded transfer file will be encoded in parallel to all selected servers.       ***Please make sure that all selected servers have the identical video clip		
	Encode Options: Typical Number of Encoder passes: 1 + Clear field 2 on field 1 encode:		
Line: 3000/300	OK Cancel ProCAP Transfer Application Copyright(c) 1999-2003. All Rights Reserved.		CAPS SAV

Select the **Add** button to add the new server into the server pool.

**Current Servers** are selected from the Omneon server pool by selecting them, indicated by a checkmark in front of the server address. New servers added are selected as current servers by default.

The standard setup is to have a single Omneon server selected, so that all encode operations affect the single selected system. If more than one Omneon server is selected, then all encode operations will be processed in parallel across all Omneon servers. This configuration requires that all selected Omneon servers contain the same files, as any error on any of the selected servers will fail an encode.

Highlight any of the current servers to **Test**, **Remove**, or set the default **Server Path**.

C ProCAP Transf Tran	sfer Configuration - TestEncode	×	
File Configuration	Timecode Reader EIA-608 Encoder		
	Computer Communications Omneon Network Encode		
l 🗩 💽 🕻	Omneon Server Configuration		
	Add Server:		
	Current Server(s): Server Address Default Clip Path          Image: Path server Address       Default Clip Path         Image: Path server Address       Server Address         Image: Path server Address       Server		
	Test Highlighted       Set Highlighted       Remove         Server Path       Highlighted         If more than one Omneon server is selected, the loaded transfer file will be encoded in parallel to all selected servers.       ***Please make sure that all selected servers have the identical video clip		
	Encode Options: Typical Number of Encoder passes: 1 2 1 1 2 1 1 2 1 2 1 1 2 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1		
	OK Cancel		
Line: 3000/300	ProCAP Transfer Application Version: 1.4.608 Copyright(c) 1999-2003. All Rights Reserved.		CAPS SAV

Select **Test** to confirm network communications with the server. The test will fail if network communications timeout. To solve a timeout error, confirm that the Omneon server is on-line and operational, that the correct IP address is being used, and that the Transfer unit has access to the network subnet that the Omneon server resides by using ping.

File Configuration	Transfer Configuration - TestEncode         Z           Timecode Reader         EIA-608 Encoder           Computer Communications         Omneon	
	Omneon Server Configuration Add Server:	
	Current Server(s): Server Address Default Clip Path 192.168.0.8 fs0\clip.dir	
Omneon co	Test Highlighted Server Path Highlighted Highlighted	
	Sucessful communication for Omneon server at address 192,168.0.8 entical video clip	
	OK Typical Number of Clear field 2 on	
	Encoder passes: 1 Field 1 encode:	
	OK Cancel	
Line: 3000/300	ProCAP Transfer Application Version: 1.4.608 Copyright(c) 1999-2003. All Rights Reserved.	CAPS SAV

The default server path must be set before encoding to a given Omneon server. The default server path is used extensively by the **Batch Transfer** operation for locating the video clips corresponding to the selected transfer files.

The first step in setting the default server path is to select the drive share on the target Omneon server.

File Configu	Transfer Configuration - TestEncode           ration         Timecode Reader         EIA-608 Encoder           Computer Communications         Omneon         Network Encode	<u> </u>
晶 Omneo	n File Picker	
Serv	ver: 192.168.0.8 <hr/>	
Pa	ath: 192.168.0.8\fs0	
Filena	ame Start Time Code End Time Code Standard Availability	
Line	Copyrigni(c) 1555-2003. Air nignis neserved.	SAV //.

The next step is to navigate to the appropriate directory where the clips are stored. The **Omneon File Picker** lists all available video files, and indicates which directories contain valid video files.

ProCAP Transler     File Configuration	Transfer Configuration - TestEncode         Timecode Reader       EIA-608 E         Computer Communications       Omneon       Ne	ncoder
Domneon File Server: Path:	Picker           192.168.0.8 <a><u>B</u>efresh</a> 192.168.0.8\FS0	×
Filename	Start Time Code End Time Code Standard Availability ss ovies 197	
Line	Copyright(c) 1555-2005. All hights heserved.	SAV //

Large directories can take some time to load in the **Omneon File Picker**, as all of the clip information for each clip is retrieved. The Transfer application caches the file names locally, so that the initial listing is filled in a timely manner. Available video clips for encoding are shown with an icon to the left of the filename: blue for uncaptioned/unknown, red for incomplete, and green for captioning complete. The video clip icons are filled in at a slower rate, as the information is retrieved from the Omneon server.

C ProCAP Trans File Configuration	sfer Configuration Timeco Computer Com	) - TestEncode de Reader munications	 Omneon	EIA-608 End	coder work Encode		
Conneon File Picke	21					×.	
Server: 192.16	8.0.8	Refresh	ок				
Dally Line is							
Fam: [192.16	8.0.8\fs0\clip.dir						
Filename	Start Time Code	End Time Code	Standard	Availability	[	-	
10minclip-01	00:00:00;00	00:10:00;18	MPEG Video				
10-sec-clip	00:00:00;00	00:00:09;29	MPEG Video				
1minclip-01	00:00:00;00	00:00:00;00	Unknown				
1-minclip-02	00:00:00;00	00:00:00;00	Unknown				
1minclip-03	00:00:00;00	00:00:00;00	Unknown				
1minclip-04	00:00:00;00	00:00:00;00	Unknown				
2minclip-01	00:00:00;00	00:02:00;04	MPEG Video				
2min-clip-02	00:00:00;00	00:02:00;03	MPEG Video				
2-min-clip-03	00:00:00;00	00:02:00;03	MPEG Video				
2min-clip-04	00:00:00;00	00:02:00;03	MPEG Video				
🚞 media.dir							
🚾 mpeg06a	00:00:00;00	00:00:24;07	MPEG Video				
mpeg10a	00:00:00;00	00:02:00;03	MPEG Video				
mpeg10b	00:00:00;00	00:00:06;06	MPEG Video				
mpeg-t1	00:00:00;00	00:00:00;00	Unknown				
mpeg-t3	00:00:00;00	00:00:00;00	Unknown				
mpegt4	00:00:00;00	00:00:00;00	Unknown				
mpeg-t5	00:00:00;00	01:00:03;17	MPEG Video				
mpeg-t6	00:00:00;00	01:00:03;17	MPEG Video				
mpg04a	00:00:00;00	00:00:16;18	MPEG Video				
mpg05a	00:00:00;00	00:01:19;20	MPEG Video			-	
	сорупдпаст тэ	aa-200a. Ali mignis	neserveu.				SAV //

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