# Section

# **16 Cable Types and Filter Settings**

The Warrior 8.0 Software now includes provisions for setting certain parameters for user defined cables. These parameters include the line resistance for that line and filter settings for multiple user declared signal types.

The line resistance setting for a line will be used in computing the Head Voltage Apparent output in all services.

If a particular service has a signaltype control in the service, then when that service is ran the Warrior Software will look for specific filter settings that have been saved for that signal type for the cable that is currently selected.

# 16.1 Defining Cable Types

The first step in setting up the process to use different cable selections is to define a new cable by name. The name can be any text string that the User wishes to identify that particular cable or type of cable. The name may be something as simple as "Truck 1234 - 5/16 Line". It may also be something more specific as "1K22PZ - 7/32 (12000 ft. to 18000 ft.)

To declare a new cable, go to the Control Panel in the Warrior Program group. At the top of the window, click on the Acquisition tab. The Cable type section is in the upper right hand corner of the Acquisition sheet.

	attings		Cable selection	
Panel type	CPFE	-	Click Add for New Cab	le 💌
Refresh monito	ors every		Add	Remove
Waveforms	500	msec		
Numerics	1000	msec	Line resistance 50.0	Ohm _Set
Options			- STr	
Load up to	ol string editor au	utomatically	at service load.	
Warn abou	it losing depth, if	moving.		
Font for Acquis o fit in Acquisi	sition window. M tion window.	light need s	maller font size for <mark>all t</mark> ext	Edit font
✓ If perforatir	ng service, pop u	ip message	with tool zero point when se	ervice loads.
✓ Make Acq ■	uisition window a	lways on to	p of other windows.	
Update wit	h max range of d	lata at log s	top.	
	oth scale			240
Default log dep	2.0			10
Default log dep Default log tim	e scale			
Default log dep Default log tim Default log tim	e scale e rate			10

Fig. 16.1 Acquisition Sheet of Warrior Control Panel

Click Add for Ne	ew Cable 📃 🔻
Add	Remove
l ine resistance	50.0 Obm Set

Fig. 16.2 Cable type section of the Acquisition sheet of Control panel.

To add a new line, click on the [Add ] button to bring up the New Cable Type Description window.



Fig. 16.3 New Cable Type Description

Type in the new name or description that you wish to use to identify the cable then click [ OK ] to accept the name.

16.1.1 Setting Line Resistance

Each of the defined lines may have a line resistance setting. Enter the measured resistance of the line, then click the [Set] button to assign that resistance to the currently selected line. The line resistance is used to compute a head voltage apparent output HVOLTA. This is calculated by multiplying the line resistance by the Tool Current output to give a line voltage loss and then subtracting this from the Tool Voltage output. HVOLTA = TVOLT – (TCURR \* Line resistance).

Unless the line resistance is accurate and the tool voltage and current are properly calibrated then the head voltage will not be an accurate measurement.

### 16.1.2 Defining Cable Signal Types

There are two different methods to set up signal types. The first are device signal types for certain proprietary devices. When the device is called out in a service, the software will look for a cable filter setting for the current cable.

The more common method comes from the SDSTIP device (Scientific Data Systems Tool Interface Panel). The cable signal types for the SDSTIP are User defined types of signals, usually telemetry signal from the tool that are filtered through the CBL1D board in the interface panel. If a signal type control has been added to a service, the software looks for saved filter settings for that type of signal in the settings of the cable that is currently selected in the Warrior Control Panel. If cable filter settings are found, it will use those settings, otherwise a notification that no settings were found will be displayed and it will use the service default settings.

The first time a cable is used with a signal type control in a service the settings will not be found and a warning message will be shown. To save the filter settings for the currently selected cable, from Warrior Logging System Acquisition window click on Edit -> Device Configuration -> SDSTIP. Click on the [Update Cable Settings] button to save the filter settings for the signal type to the cable selected. The next time the service is started, no error message is shown and the service default filters are used. To use the cable signal type filters, you will need to edit the device configuration for the SDSTIP again and select to use the cable type filters. That setting will be saved so that from then on the cable type filters will be used unless they are turned off in the SDSTIP settings.



Fig. 16.4 Cable filter settings not found.

16.1.3 Example of Setting up Two Cables with different Filters for the same Service

I realize how convoluted all of this might seem to someone not familiar with the process. As an example to show the procedure for getting a service to run different filter settings, I will give an example of a CSS (Computer Sonic Systems) tool that has previously required two different services to run on different length of lines.

16.1.4 Setting Two Example Cables

We will be making two lines. The first will be the short to medium line and the second will be the medium to long line. To set up cable types we will need to go to the Warrior Control Panel Acquisition page. In the Cable Selection area, click on the [ Add ] button to add a new cable.

-	-		Cable selection		
Panel type	OPA	<u> </u>	Click Add for N	ew Cable	• _
Refresh monito	ors every	-	Add		Remove
Waveforms	500	 msec			
Numerics	1000	msec	Line resistance	50.0	Ohm Set
Options			5 3/8		
🔽 Load up to	ol string editor	automatically	v at service load.		
Wam abou	ut losing depth.	if moving.			
Warn abou Font for Acquisi o fit in Acquisi	ut losing depth, sition window, ition window,	, if moving. Might need s	smaller font size for al	text	Edit font
Warn about Font for Acquist of it in Acquist	ut losing depth, sition window, ition window, ng service, pop	, if moving. Might need s oup message	smaller font size for al	l text when ser	Edit font vice loads.
Wam about Font for Acquist fit in Acquist fit perforation Make Acq	ut losing depth. sition window. ition window. ng service, pop uisition window	if moving. Might need s ) up message / always on to	smaller font size for al with tool zero point v op of other windows.	l text when ser	Edit font
<ul> <li>✓ Warn about</li> <li>Font for Acquistion</li> <li>fit in Acquistic</li> <li>✓ If perforatin</li> <li>✓ Make Acq</li> <li>✓ Update with</li> </ul>	ut losing depth, sition window, ition window, ng service, pop uisition window th max range o	, if moving. Might need s ) up message / always on to f data at log s	smaller font size for al with tool zero point v op of other windows. stop.	l text when ser	Edit font vice loads.
<ul> <li>✓ Warn about</li> <li>Font for Acquisition</li> <li>If perforating</li> <li>✓ If perforating</li> <li>✓ Make Acquisition</li> <li>✓ Update with</li> <li>✓ Default log dep</li> </ul>	ut losing depth, sition window, ition window, ng service, pop uisition window th max range o pth scale	if moving. Might need s oup message always on to f data at log s	smaller font size for al with tool zero point v op of other windows. stop.	l text	Edit font vice loads.
<ul> <li>✓ Warn about</li> <li>Font for Acquist</li> <li>fit in Acquist</li> <li>✓ If perforatin</li> <li>✓ Make Acq</li> <li>✓ Update with</li> <li>✓ Default log dep</li> <li>Default log tim</li> </ul>	ut losing depth. sition window. ition window. ng service, pop uisition window th max range o pth scale e scale	if moving. Might need s oup message always on to f data at log s	smaller font size for al with tool zero point to op of other windows. stop.	l text	Edit font vice loads.
<ul> <li>✓ Warn about</li> <li>Font for Acquist</li> <li>to fit in Acquisi</li> <li>✓ If perforatin</li> <li>✓ Make Acq</li> <li>✓ Update with</li> <li>✓ Default log time</li> <li>Default log time</li> </ul>	ut losing depth. sition window. ition window. ng service, pop uisition window th max range o pth scale e scale e scale e rate	if moving. Might need s oup message always on to f data at log s	smaller font size for al with tool zero point v op of other windows. stop.	I text	Edit font vice loads. 240 10 10

Fig. 16.5 Click to Add a new Cable.

When the Add new Cable Type window comes up, type in the description for the new cable type. Click the [ OK] button to accept the description.

	and the second s	
New Cable Type Description		
5 /16" - Short to Medium		
	ОК	Cancel

Fig. 16.6 Enter short to medium line description.

Click on the [Add] button again to add the second line. Type in the line description for the medium to long lines in the text window. Then click on the [OK] button to accept the description.

dd new Cable Type	and some last	×
New Cable Type Description		
5/16" - Medium to Long		
	ОК	Cancel

Fig. 16.8 Enter medium to long line description.

Next we need to set the line resistance for each line. From the control panel acquisition page cable selection area, click the drop down list of cable selections and pick the short to medium line

Click Add for N	ew Cabl	e -	4
Add		Remo	ve
Line maintance	50.0	Ohm	Sal

Fig. 16.9 Click Drop Down list to select cable.

For this example we will set the line resistance to 35 Ohm. Enter 35 in line resistance and then click the [ Set ] button.

5 /16" - Short to	o Mediu	Im	
Add		Remo	ve
ine resistance	35	Ohm	Se

Fig. 16.10 Set Line Resistance for short to medium line to 35 Ohm.

Next, click the cable selection drop down list and select the medium to long line. We will put in an example resistance or 70 ohms, and then we click the [Set] button to save that value.

5/16" - Medium	to Long	_
Add	Ren	nove
I have an advanced and	70.0 Ohm	Cat

Fig. 16.11 Set Line Resistance for medium to long line to 70 Ohm. Click the [ OK ] button at the bottom of the control panel Acquisition page to save changes.

# 16.2 Setting up Signal Types through the Service Editor

The next step is to add the Signal Type control to our services. From the Warrior Software program group, select Database Utilities. From the Database Utilities, click on Edit Logging Service Details to bring up the Service Editor.



Fig. 16.12 Starting the Service Editor from Database Utilities.

In the Service Editor, click on one of our CSS services to edit it. We will start with the "CSSM 3 18" RBT Short to Medium Lines" service. Then click on Add -> Control.

Sensor       CSSM 3 1/8" RBT Short to Medium Lines         Tool       Tool         None       Tool         Shooting Collars Collars Solars SlE Cement Bond 1x1 Voise Log Samma CCL (Neg GR Pulse) Temperature Log (Neg Temp Pulse) Recorder       Vise Log Size Presentation for all logs from this service       Edit Gains and Filters         Wake this service available for perforating       Devices       Controls         Device 1=BASE.4       Device2=AUX.4       Device3=DSP.4, script=cssmSync.was Device4=SDSTIP.4, sync.sonic,aux       I2CInit=21=00.22=00 Scale=36,0         Scale=36,0       Sensors       Tools         TCURR=BASE,TCURR,2 TVOLT=BASE,TVOLT.2 TVOLT=BASE,TVOLT.2 TVOLT=BASE,TVOLT.2 TELA-TEST Behaviore and and the service available for perforating       Tools         TCURR=BASE,TCURR,2 TVOLT=BASE,TVOLT.2 TVOLT=BASE,TVOLT.2 TVOLT=BASE,TVOLT.2 TELA-TEST       Tools         TELA-TEST TelA-TEST       Tools         TelA-TEST       THM-DSP, TEL2 TVOLT=CST_COL1       Tools         TelA-TEST       THM-DSP, TEL2 THV-DSP, TEL2       Tools         TelA-TEST       THM-DSP, TEL2 THV-DSP, TEL2       Tool7=CSS_CNL         Tool7=CSS_CNL, serial=CSS_MOL Tool7=CSS_CNL, serial=CSS_MOL Tool7=CSS_CNL, serial=CSS_MOL       Tool7=CSS_CNL, serial=CSS_MOL		Device	1 1						
Control       Tool         Tool       Tool         Shooting Collars Collars Collars Solars Sile Cement Bond 1x1 Voise Log Samma CCL (Neg GR Pulse) Temperature Log (Neg Temp Pulse) Recorder       Tele         Wake this service available for perforating       Edit Gains and Filters         Devices       Controls         Devices       Controls         Device 1=BASE, 4 Device 2=AUX, 4 Device 3=DSP, 4, script=cssmSync.was Device4=SDSTIP, 4, sync, sonic, aux       I2CInit=21=00,22=00 Scale=36,0         Sensors       Tools         Tool=SIT Fest TELA-TERTMINATION TEST TELA-TEST Devicet Pend       Tools         TEMP=DSP, TEL2 THY=DSP, TEL2 THY=DSP, TEL2 THY=DSP, TEL2 THY=DSP, TEL2 THY=DSP, TEL2       Tools         Toolf=CSS_CRULT_serial=CSS_MID Toolf=CSS_CRULT_serial=CSS_MID Toolf=CSS_CRULT_serial=CSS_MID Toolf=CSS_CRUT_se	onvices	Sensor		000H 2 1		ta Madium I			
Tool       Tool       Tool       Tool       Tool point Test Title         Shooting Collars       Collars       Title       Title         Title       Image: Collars       Collars       Edit Gains and Filters         Sile Cement Bond 1x1       Wake this service available for perforating       Edit Gains and Filters         The properture Log (Neg Temp Pulse)       Devices       Controls         Recorder       Device 1=BASE,4       Device 2=AUX,4         Device 2=AUX,4       Device 3=DSP,4 script-cssmSync.was       I2Clint=21=00,22=00         Scale=36,0       Scale=36,0       Scale=36,0         TOURR=BASE,TCURR,2         TVOLT=BASE,TVOLT,2       Tools         TCURR=BASE,TVOLT,2       Tools         TCURR=BASE,TCURR,2       Tools         TCURR=BASE,TVOLT,2       Tools         TCURR=BASE,TVOLT,2       Tools         TCURR=BASE,TVOLT,2       Tools         TVOLT=BASE,TVOLT,2       Tools         TRELA-TERMINATION TEST       TELA-TERMINATION TEST         TELA-TEST       THP=DSP, TEL8         THY=DSP, TEL7       Tool5         Weiget Tops       Tool7=CSS_CNL;senial=0001;exclude	ci vices	Control		Presentation	Schlors		Other	Zero point	<bottom of="" string=""></bottom>
Note Log       Iffe         Jolars       Jolars         Jolars       Sile Cement Bond 1x1         Voise Log       Gamma CCL (Neg GR Pulse)         Emperature Log (Neg Temp Pulse)       Devices         Controls       Devices         Controls       Device3-DSP, 4 script-cosmSync.was         Device4=SDSTIP.4, sync.sonic.aux       Intervice3-SSP, 74, script-cosmSync.was         Device4=SDSTIP.4, sync.sonic.aux       Tools         TCURR=BASE.TCURR.2 TVOLT=BASE.TVOLT.2 LTEN-AUX.Setup       Tools         TCURR=BASE.TVOLT.2 LTEN-AUX.LTEN.4 GR-DSP, TEL2 CCL=DSP.CCL1       Tools         TELA-TEST Text-TEST       Tel.senial=CSS_MOL Tool5=CSS.GENT.senial=CSS_MOL Tool5=CSS.GENT.senial=CSS_MOL Tool5=CSS.GENT.senial=CSS_MOL Tool5=CSS.GENT.senial=CSS_MOL Tool5=CSS.GENT.senial=CSS_MOL Tool5=CSS.GENT.senial=CSS_MOL Tool5=CSS.GENT.senial=CSS_MOL Tool5=CSS.GENT.senial=CSS_MOL Tool5=CSS.GENT.senial=CSS_MOL Tool5=CSS.GENT.senial=CSS_MOL	None	Tool	-		loonbio	ر لشد	ound		soutom of durings
Disabled     Tools       2SXD PSAUX Setup 2BL1 Test     TOULT=BASE_TCULRR,2 TVOLT=BASE_TVOLT,2 LTEN=AUX_LTEN,4 GR=DSP,TEL2 CCL=DSP,CCL1 TEMP=DSP,TEL8 THY=DSP,TEL7 WC2ET_TDSP     Tool1=STD;serial=0000 Tool2=CS8CENT:serial=CSS_ROLL Tool3=CS8SCENT:serial=CSS_MID Tool3=CS8CENT:serial=CSS_MID Tool3=CS8CENT:serial=CSS_MID Tool3=CS8CENT:serial=CSS_MID Tool3=CS8CENT:serial=CSS_MID Tool3=CS8CENT:serial=CSS_MID Tool3=CS8CENT:serial=CSS_MID Tool3=CS8CENT:serial=CSS_MID Tool3=CS8CENT:serial=CSS_MID Tool3=CS8CENT:serial=CSS_MID Tool3=CS8CENT:serial=CSS_MID Tool3=CS8CENT:serial=CSS_MID Tool3=CS8CENT:serial=CSS_MID Tool3=CS8CENT:serial=CSS_MID Tool3=CS8CENT:serial=CSS_MID Tool3=CS8CENT:serial=CSS_MID	Shooting Colla Collars SIE Cement B Noise Log Bamma-CCL ( Femperature I Recorder CSSM 3 1/8" CSSM 3 1/8"	rs ond 1x1 Neg GR Pulse) .og (Neg Temp Pulse RBT Short to Medium RBT Medium to Long	) Lines	Device1=BAS Device2=AU Device3=DS	I e copy of presentation service available for Devices SE.4 54.4 2.4 script=cssmSync	on for all logs from perforating	lihis service 12Clnit=21 Scale=36,	Ci =00,22=00 0	Edit Gains and Filters
seement Kond	PSXD PSAUX CBL1 Test TELA- TERMI TELA-TEST	Disabled (Setup NATION TEST	*	TCURR=BAS TVOLT=BASI LTEN=AUX,L GR=DSP,TEL CCL=DSP.CC TEMP=DSP,T THV=DSP,T THV=DSP,T	Sensors E.TCURR,2 E.TV0LT,2 .TEN,4 .2 .11 TEL8 .2 .2	E	Tool1=STI Tool2=CSi Tool3=CSi Tool4=CSi Tool5=CSi Tool5=CSi Tool7=CSi	D;serial=0000 8CENT;serial 8CCBL;serial= 8CENT;serial= 8_GR_TEL;s 8CENT;serial= S_CNL;serial=	Fools CSS_ROLL CSSM -CSS_MID srial=CSSM -CSS_ROLL =0001;exclude

Fig. 16.13 Select CSS Service and Add Control.

Scroll down the Control Keyword dropdown list to "Signal Type". For this example we will enter "CSS\_TEL" as the Control value for the signal type. Note that any text string that the User chooses may be entered for a signal type. SClick [ OK ] to save the setting. Click on File -> Save to save the edited service.

Control key word	=	Control value
ignalType	- CS	S_TEL
OK	- 7	Cancel

Fig. 16.14 Set CSS Service signal type to CSS\_TEL

We now have to add the same signal type control to the "CSSM 3 1/8" RBT Medium to Long Lines. Click on the service to edit it. Click on Add -> Control. Select the "Signal Type" Control keyword and enter CSS\_TEL for the control value. Click [ OK ] to save the control value and then click on File -> Save to save the edited service.

# 16.3 Setting Filter Settings for the Signal Types on each Line

Now we need to set the filter settings for the CSS\_TEL signal for each line that we will be using. Go to the Warrior Control panel Acquisition page, and in the Cable Selection area, click the dropdown list to select the 5/16" – Short to Medium cable that we have already declared. Click [ OK ] to save.

	sttings	Cable selection	
ranei type		5/16" - Short to	Medium
Refresh monito	ors every	Add	Remove
Waveforms	500 msec		
Numerics	1000 msec	Line resistance	35.0 Ohm Set
Options			
Load up to	ol string editor automatically	v at service load.	
Wam abou	it losing depth. if moving		
Frann abou			
Font for Acquis	sition window. Might need tion window.	smaller font size for all to	ext Edit font
Font for Acquist o fit in Acquist	sition window. Might need s tion window. 1g service, pop up message	smaller font size for all to with tool zero point wh	ext Edit font
Font for Acquist o fit in Acquist fit perforatin Make Acqui	sition window. Might need s tion window. Ig service, pop up message uisition window always on to	smaller font size for all to a with tool zero point wh op of other windows.	ext Edit font
Font for Acquisi o fit in Acquisi If perforatir Make Acqu Update wit	sition window. Might need sition window. Ing service, pop up message uisition window always on to h max range of data at log.	smaller font size for all to e with tool zero point wh op of other windows. stop.	ext Edit font
Font for Acquis o fit in Acquisi If perforatir Make Acqu Update wit Default log dep	sition window. Might need sition window. Ing service, pop up message uisition window always on t h max range of data at log oth scale	smaller font size for all to a with tool zero point wh op of other windows. stop.	ext Edit font een service loads. 240
Font for Acquisi to fit in Acquisi fit perforatir Make Acqui Update wit Default log dep Default log time	sition window. Might need sition window. Ing service, pop up message uisition window always on t h max range of data at log. oth scale e scale	smaller font size for all to a with tool zero point wh op of other windows. stop.	Edit font ten service loads.
Font for Acquis o fit in Acquisi o fit in Acquisi for the formation Make Acquine Update wit Default log dep Default log time Default log time	sition window. Might need : tion window. ng service, pop up message uisition window always on to h max range of data at log oth scale e scale e rate	smaller font size for all to e with tool zero point wh op of other windows. stop.	Edit font ten service loads. 240 10 10
Font for Acquisi o fit in Acquisi f perforatin Make Acqu Update wit Default log dep Default log time Default log time	sition window. Might need : tion window. ng service, pop up message uisition window always on to th max range of data at log th scale e scale e rate	smaller font size for all to e with tool zero point wh op of other windows. stop.	ext Edit font ten service loads. 240 10 10

Fig. 16.15 Select Short to Medium line for use.

Now start Acquisition and select the "CSSM 3 1/8" RBT Short to Medium line" service. You will get a message stating that you have incomplete filter setting for cable type. Click [OK] to cancel the message.



Fig. 16.16 Filter settings not yet saved for this cable and signal type message

Sa Warrior Logging Syster	m	
File Service Action	dit <u>M</u> onitor	
Service: CSSM 3 1/8" Database: Dataset: Realtime Acquisition N	Tool String Variables Heading Master Log Format Plot Job Sensors Calibrations Filters Tool Configuration	
	Device Configuration	1 BASE (CYSTD)
	Correlation Curves	2 DSP (SDSDSP)
-		3 SDSTIP (SDSTIP)
		4 LOGSVC (LOGSVC)
	L.	

To save the settings, Click on Edit -> Device Configuration -> SDSTIP.

Fig. 16.18 Edit SDSTIP to save filter settings

When the SDS Tool Interface Panel Configuration windows come up, Click on the [ Save As Cable Settings ] to save the current values to the cable type. Then click [OK ] to close the window

SDS Tool Interface Panel Configuration	Warrior System Control Panel
Gain     Q     Fc       Sonic     ?     1.00     2.00     24000     Image: Gain of the second se	Save current settings to this Cable Type ? 5 /16" - Short to Medium
Sync ? 0.10 0.40 69 C BandPass HighPass	<u>Y</u> es <u>N</u> o
AUX I⊽ Stage 1 □ Stage 2 □ Stage 3 I⊽ Sonic Pre-Filter	
Use Cable Type Filters Update Cable Settings Apply Settings Cancel OK	

Fig. 16.19 Saving the filter settings to 5/16" – Short to Medium line

Now restart the "CSSM 3 1/8" RBT Short to Medium line" service and Edit -> Device Configuration -> SDSTIP again. This time the Use cable Type Filters check box has been enable. Click on this box to use the saved cable settings. This service now will use the saved cable filter settings every time until they are changed by editing the SDSTIP configuration settings and unchecking the Use Cable Type Filters box.

SDS Too	Gain Q	Fc [24000	iguration 💌 - ೧ BandPass ೧ HighPass
Sync 7	0.10 0.40	69	BandPass     HighPass
AUX	IV Stage1 Ⅰ IV Sonic Pre-Fil	✓ Stage 2 ter	☐ Stage 3
Use Cable	e Type Filters		date Cable Settings

Fig. 16.20 Selecting to use the saved Cable Filter settings.

Now that we have set up a CSSM service to use the short to medium line settings, we have to set up the medium to long lines service. Go to the Warrior Control panel Acquisition page and select the 5/16" Medium to Long line. Then Click [OK] to close the control panel and save the selected cable.

5/16" - Medium	to Long 🔄
Add	Remove
l ine resistance	70.0 Obm Set

Fig. 16.21 Select the Medium to Long line to start savings CCS\_TEL settings

Now go to Acquisition and select the "CSSM 3 1/8" RBT Medium to Long line" service. You will once again get the warning message about incomplete filter settings for cable type.



Fig. 16.22 Warning message for incomplete filter settings for cable type

From Acquisition, we need to once again Edit -> Device Configuration -> SDSTIP and Click the [ Save As Cable Settings ] Button. Click the [ YES ] button to save the settings. Then click [OK ] to close the SDS Tool Interface Panel Configuration Window.

SDS Tool Interface Panel Configuration	
Gain       Q       Fc         Sonic       ?       1.00       2.00       24000       Image: BandPass         Sync       ?       0.10       0.40       69       Image: BandPass         AUX       Image: Stage 1       Image: Stage 2       Image: Stage 3	Warrior System Control Panel  Save current settings to this Cable Type ? 5/16" - Medium to Long
✓ Sonic Pre-Filter       Use Cable Type Filters     ✓       Apply Settings     Cancel	<u>Y</u> es <u>N</u> o

Fig. 16.23 Saving CSS\_TEL filter settings for Medium to long line

Now from Acquisition, restart the "CSSM 3 1/8" RBT Medium to Long line" service. When the service is loaded we need to edit the SDSTIP configuration by clicking again Edit -> Device Configuration -> SDSTIP. Click the Use Cable Type Filters checkbox to bring in the saved cable settings. Then click [ OK ] to close the SDS Tool Interface Panel Configuration window.

SDS Tool Interface Panel Configuration				
Sonic _	Gain ? 1.00	Q 2.00	Fc 24000	<ul> <li>BandPass</li> <li>HighPass</li> </ul>
Sync _	? 0.10	0.40	69	<ul><li>C BandPass</li><li>C HighPass</li></ul>
AUX	☑ Stage 1 ☑ Sonic F	<b>ञ्च</b> Pre-Filter	Stage 2	F Stage 3
Use Cat	o <mark>le Type Filters</mark> Apply Setting	<b>V</b> JS	Upda Cano	ate Cable Settings

Fig. 16.24 Using CSS\_TEL filter settings for Medium to long line

If you look at the filter settings that were saved in Fig 16.20 and Fig 16.24, they were:

		Sonic Fc	Sync Fc Aux Fc
Short to Medium	6000	69	1000 HP
Medium to Long	6000	69	10000 BP

Now with Medium to Long lines selected in the Warrior Control panel, if you start Acquisition and select either the "CSSM 3 1/8" RBT Short to Medium line" service or the "CSSM 3 1/8" RBT Medium to Long line" service and then edit the SDSTIP configuration settings, you will find that both services are using the filter settings for the medium to long lines. Likewise, if you change the selected cable in the Warrior control panel to Short to Medium line, you will find that the short to medium filter settings are being used in both services. At this point, you could use the Service Editor to Remove one of these two services and then rename the remaining service to "CSSM 3 1/8" RBT".

If at a later date, it is decided that you need to change the filter settings of the service for a particular cable, you would need to edit the SDSTIP Device Configuration and uncheck the Use Cable Type Filters check box. The software will revert the filter settings to what is saved in the service. Make any changes that you need and then [ Update Cable Settings ]. Restart the service and edit the SDSTIP device configuration to check the Use Cable Type Filters check box.