





				A	45	10 '	Tim	er	Pro	ogra	amn	ner																		
22 2 2	; I							0.1.0		-	_							_							_	_		100	10	
vent Groups PublicHols				-	_		lary 2						_	uary	-				_		rch 20	116						oril 20		
SchoolHols				S	М	Т	W	Т	F	S	S	М	T	W	Т	F	S	S	М	T	W	T	F	S	S	М	Т	W	Т	F
StandardDay				3			0		8	2	7	1	2	3 10	4	5 12	6 13	6		1	2	3 10	4	5 12	3	4	_	6		1
				10	11	12	13	14	8 15	9	14	° 15	16	17	18	12	20	13	14	° 15	16	17	18	12	10	11	12	13	14	15
				17	18	19	20	21	22	23	21	22	23	24	25	26	27	20	21	22	23	24	25	26	17	18	19	20	21	22
				24	25	26	27	28	29	30	28	29					-	27	28	29	-	31			24	25	26			29
				31																										
						Ma	ay 20	16					Ju	ne 20	16					Ju	ily 20	16					Aug	gust 2	2016	
				S	М	Т	w	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F
Add	Edit	D	elete	1	2	3	4	5	6	7				1	2	- 3	4						1	2		1	2	3	4	5
vents for Standar	10			8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12
	ubay			15	16	17	18	19	20	21	12	13	- 14	15	16	17	18	10	11	12	13	- 14	15	16	- 14	15	16	17	18	19
Event	Output	Duration	Time	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26
PrebellMusic	Pre-Bell	04:59	08:25:00	29	30	31					26	27	28	29	30			24 31	25	26	27	28	29	30	28	29	30	31		
Firstbell	Bell	00:03	08:30:00															- 31												
MorningBreak EndBreak	Bell Bell	00:03 00:03	10:30:00 11:00:00		5	Septe	mber	201	6				Octo	ber 2	2016				1	love	mber	2016	6				Dece	mber	r 2016	3
Lunch	Bell	00:03	13:00:00	S	М	Т	W	т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F
EndLunchBell	Bell	00:03	13:40:00					1	2	3							1			1	2	3	4	5					1	2
EndofDay	Bell	00:03	15:00:00	- 4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9
				11	12	13	14	15	16	17	9	10	11	12	13	- 14	15	13	14	15	16	17	18	19	11	12	13	14	15	16
Add	Edit	D	elete	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23
				25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30
aylight Saving											30	31																		
						Janu	lary 2	017					Febr	uary 2	2017															
Date	+/-			S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S													
				1	2	3	4	5	6	7				1	2	3	4													
				8	9	10	11	12	13	14	5	6	7	8	9	10	11													
				15	16	17	18	19	20	21	12	13	14	15	16	17	18													
				22	23	24	25	26	27	28	19	20	21	22	23	24	25													

Software Programming Guide

A 4510B Yearly Timer

Redback® Proudly Made In Australia

User manual revision number: 1.0 23/08/2023

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1.0 RUNNING THE PROGRAMMING SOFTWARE

The software is provided on the supplied Micro SD card and is called "A4510TimerProgrammer_xxxx.exe".

In order to access the program, the Micro SD card will need to be connected to a Windows based device such as a PC or laptop. It will need to be equipped with an Micro SD card reader to do this. If an SD slot is not available then the D 0371 A USB Memory Card Reader or similar would be suitable (not supplied).

You will first need to remove power from the A 4510B and then remove the Micro SD card from the front of the unit. To remove the Micro SD card push the card in and it will eject itself.

Make sure the Windows based device is on and card reader connected and correctly installed. Then insert the Micro SD card into the reader.

Go to "My Computer" or "This PC" and open the Micro SD card which is usually marked "Removable disk".

In this case it is named "Removable disk (K:)". Select the removable disk and then you should get a window that looks like figure 1.

It is recommended to run the program from the Micro SD card.

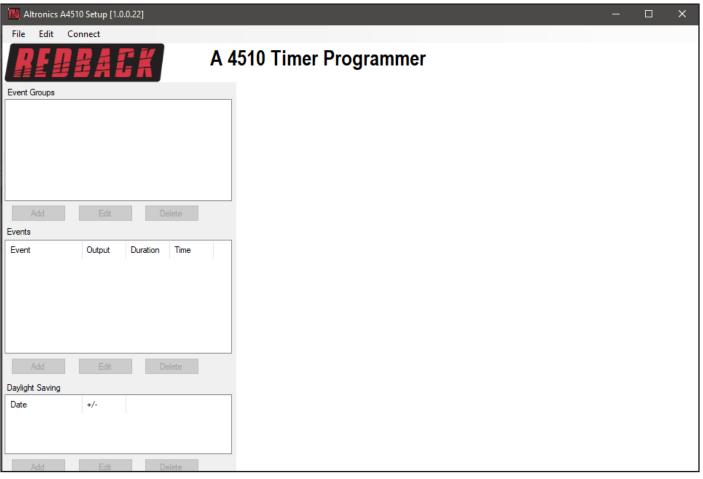
Double click on the file - A4510TimerProgrammer.exe

The programming screen should appear as shown in Fig 2. If the program doesn't run then the .NET Framework might

need to be updated on your PC. This must be updated to the .NET Framework 4, available on the microsoft website.

👝 🖓 📙 🗢 🛛 🛛 Manage	Removable Disk (K:)			– 🗆 🗙
File Home Share View Drive Tool				^ (
Image: Application of the state o		New item •	Properties • Open • Open	Select all
\leftarrow \rightarrow \checkmark \uparrow \blacksquare > Removable Disk (K:) >			↓ Č	Search Removable
 > * Quick access Oreative Cloud Files OneDrive - Personal This PC Removable Disk (K:) Network 	#MP3LIBRARY# 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21	27 49 28 50 29 51 30 52 31 53 32 54 33 55 34 56 35 57 36 59 37 59 38 60 39 61 40 62 41 63 43 65	87 🥘 FILES.CNF	Programmer_1022.exe
	22	44 66 45 67	88 🔄 PASS.TXT 89 🔄 TEMP.TXT	
	24	46 68 47 69	90 91	

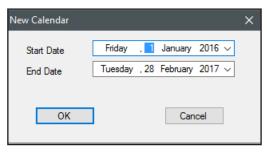
Fig 1



If this is the first time the program has been run, a new calendar will need to be created. Navigate to the "File" menu in the top left corner and select "New".

The window shown below will appear. The start and end dates will default to the current year with a 2 month overlap into the following year.

NOTE: The calendar start and end dates can be set to a minimum of 1 month, up to a maximum of 2 years.



In our example we will select the default calendar.

Press "OK" to confirm the dates. The window shown in figure 3 should be created.

This is where all the timing information will be entered for the calendar year.

NOTE: The colour scheme for the calendar can be altered in the defult setup (refer to section 4.0 for more information).



2.0 ADDING AN EVENT GROUP

The software makes it very easy to enter the timing events for any calendar day. The timing events for a day can be grouped and labelled into something meaningful to the user, such as "StandardDay", "PublicHols", "SchoolHols", "StudtFreeDay", "AssemblyDay", etc up to a maximum of 12 characters.

Fig 3

To add a group, simply press the "ADD" button in the Event Groups section of the window. The window shown below should appear.

New Even	t Group	
Name	Maximum 12 characters: 12 remaining	Colour
0	К	Cancel

For our example we are going to start by adding the event group labelled "StandardDay". *NOTE: No spaces or special characters can be used when creating the labels.* Enter the label, select a colour for the visuall representation of the day on the calendar as shown below and then press "OK".

New Even	t Group	
Name	StandardDay Maximum 12 characters: 1 remaining.	Colour
C	ĸ	Cancel

The Event Group created will now appear in the Event Groups as shown in figure 4.

Altronics A4510 Setup*																									-	-		×
File Edit																												
REDBACK	A	45	10	Tin	ner	Pro	ogra	mn	ner																			
Event Groups			Jan	uary 2	2016					Febr	uary 2	2016	;				Ma	rch 20	016					A	oril 20	016		
StandardDay	S	М	Т	W	Т	F	S	S	М	Т	W	т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S
						1	2		1	2	3	4	5	6			1	2	3	4	5						1	2
	3	- 4	5	6	7	8	9	7	8	9	10	11	12	13	6	7	8	9	10	11	12	3	- 4	5	6	7	8	9
	10	11	12	13	14	15	16	14	15	16	17	18	19	_	13	- 14	15	16	17	18	19	10	11	12	13	14	15	- 1
	17	18	19	20	21	22	23	21	22	23	24	25	26	27	20	21	22	23	24	25	26	17	18	19	20	21	22	23
	24	25	26	27	28	29	30	28	29						27	28	29	30	31			24	25	26	27	28	29	30
	31																											
			M	ay 20)16					Ju	ne 20	16					Ju	ily 20	16					Aug	just 2	2016		
	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S
Add Edit Delete	1	2	3	- 4	5	6	7				1	2	3	4						1	2		1	2	3	4	5	6
	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	10
vents for StandardDay	15	16	17	18	19	20	21	12	13	- 14	15	16	17	18	10	11	12	13	- 14	15	16	14	15	16	17	18	19	20
Event Output Duration Time	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27
	29	30	31					26	27	28	29	30			24	25	26	27	28	29	30	28	29	30	31			
															31													
		5	Septe	mbe	r 201	6				Octo	ber 2	2016				1	Nove	mber	2016	6				Dece	mbe	r 201	6	
	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S
					1	2	3							1			1	2	3	4	5					1	2	3
	- 4	5	6	7	8	9	10	2	3	- 4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10
	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17
Add Edit Delete	18	19	20	- 21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24
	25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30	31
								30	31																			
Daylight Saving			Jan	uary 2	2017					Febr	uary 2	2017																
Date +/-	S	м	Т	w	т	E	S	S	м	Т	W	т	E	S														
	1	2	3	4	5	6	7				1	2	3	4														
	8	9	10	11	12	13	14	5	6	7	8	9	10	11														
	15	16	17	18	19	20	21	12	13	14	15	16	17	18														
	22	23	24	25	26	27	28	19	20	21	22	23	24	25														
Add Edit Delete																												

Fig 4

Before we go any further we will save the calendar configuration. Navigate to the "File" menu in the top left corner and select "Save".

NOTE: When the save button is pressed the configuration will be saved to the root directory from which the software was run. In our case we ran the software directly from the Micro SD card, so all configuration information will be saved to the Micro SD card. If we wish to save the configuration elsewhere we could use the "Save As" option which would allow us to navigate to another folder. There is no option to save the configuration with a preferred name. The configuration file is saved to the CONFIG folder and the event group information is saved to the GROUPS folder.

We will now create the other groups we would like to add.

We will add Event Groups for public holidays labelled "PublicHols" and an Event Group for school holidays labelled "SchoolHols". We can do this by following the same procedure just outlined or we can use the "Duplicate Event Group" option (see section 6.0 for more details).

The result is shown in figure 5.

Altronics A4	510 Setup*																														>
File Edit																															
RE		ſ	K	A	45	10	Tin	ner	Pro	ogra	amn	ner																			
Event Groups						Janu	uary :	2016					Febr	uary	2016	;				Ma	rch 2	016					A	oril 20	16		
PublicHols				S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S
SchoolHols									1	2		1	2	3	4	5	6			1	2	3	4	5						1	2
StandardDay				3	- 4	5	6	7	8	9	7	8	9	10	11	12	13	6	7	8	9	10	11	12	3	- 4	5	6	7	8	9
				10	11	12	13	14	15	16	14	15	16	17	18	_	20	13	- 14	15	16	17	18	19	10	11	12	13	- 14	15	16
				17	18	19	20	21	22	23	21	22	23	24	25	26	27	20	21	22	23	24	25	26	17	18	19	20	21	22	- 23
				24	25	26	27	28	29	30	28	29						27	28	29	30	31			24	25	26	27	28	29	30
				31																											
						Ma	ay 20	016					Ju	ne 20)16					Ju	ly 20	16					Aug	just 2	2016		
	5 In			S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S
Add	Edit	De	elete	1	2	3	- 4	5	6	7				1	2	3	4						1	2		1	2	3	- 4	5	6
Distant Con Distant	-1-			8	9	10	11	12	13	14	5	6	7	8	9	_	11	3	4	5	6		8	9	7	8	9	10	11	12	13
Events for PublicH				15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20
Event	Output	Duration	Time	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27
				29	30	31					26	27	28	29	30			24 31	25	26	27	28	29	30	28	29	30	31			
																		31													
					5	Septe	embe	er 201	6				Octo	ber 2	2016					Nove	mber	2016	3				Dece	mber	2016	3	
				S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S
								1	2	3							1			1	2	3	4	5					1	2	3
				4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10
				11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17
Add	Edit	De	elete	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24
				25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30	31
Daylight Saving											30	31																			
				1		Jani	uary 2	2017					Febr	uary 2	2017																
Date	+/-			S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S														
				1	2	3	- 4	5	6	7				1	2	3	4														
				8	9	10	11	12	13	14	5	6	7	8	9	10	11														
				15	16	17	18	19	20	21	12	13	14	15	16	17	18														
Add	Edit	De	elete	22	23	24	25	26	27	28	19	20	21	22	23	24	25														
		_		29	30	31					26	27	28																		

Fig 5

For our example we will now select the days of the year we would like to generate into standard school days. In the Event Groups window select the StandardDay group. Now move your mouse over the calendar and you will notice that the days will change to the "StandardDay" group's colour (In our example this colour is green). Pressing the left mouse button will change the highlighted day to this colour and in turn SET the selected day to a standard school day as shown in figure 6 where February 8th has been selected. We will call this the "Single Day" selecting mode. To undo the selection press the right mouse button on the same day, and the day will become deselected.

REDBACK																											
		A 45	510	Tin	ner	Pro	ogra	amn	ner																		
vent Groups			Jani	uary	2016					Febr	uary	2016					Ма	rch 2	016					A	pril 20	16	
PublicHols	S	М	Т	W	Т	F	S	s	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	s	м	Т	w	Т	F
SchoolHols						1	2		1	2	3	4	5	6			1	2	3	4	5						1
StandardDay	3	4	5	6	7	8	9	7	8	9	10	11	12	13	6	7	8	9	10	11	12	3	4	5	6	7	8
	10	11	12	13	14	15	16	14	15	16	17	18	19	20	13	14	15	16	17	18	19	10	11	12	13	- 14	15
	17	18	19	20	21	22	23	21	22	23	- 24	25	26	27	20	21	22	23	24	25	26	17	18	19	20	21	22
	24		26	27	28	29	30	28	29						27	28	29	30	31			24	25	26	27	28	29
	31																										
			M	ay 20	16					Ju	ne 20)16					Ju	ıly 20	16					Auc	gust 2	016	
	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F
Add Edit Delete	1	2	3	4	5	6	7				1	2	3	4						1	2		1	2	3	4	5
	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12
ents for StandardDay	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19
vent Output Duration Time	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26
	29	30	31					26	27	28	29	30			24	25	26	27	28	29	30	28	29	30	31		
															31												
			Septe	embe	r 201	6				Octo	ber 2	2016					Nove	mber	2016	3				Dece	mbe	r 2016	3
	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F
					1	2	3							1			1	2	3	4	5					1	2
	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	- 4	5	6	7	8	9
	- 11	12	13	14	15	16	17	9	10	11	12	13	- 14	15	13	14	15	16	17	18	19	11	12	13	14	15	16
Add Edit Delete	18	19	20	- 21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23
	25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30
								30	31																		
aylight Saving			Jan	uary 2	2017					Eebr	uary 2	2017															
ate +/-	S	М	Т	w	т	F	S	S	м	т	W	т	F	S													
	1	2	3	4	5	6	7				1	2	3	4													
	8	9	10	11	12	13	14	5	6	7	8	9	10	11													
			-	18	19	20	21	12	13	14	15	16	17	18													
	15	16	17	18	13																						
Add Edit Delete	15		17	25	26	27	28	19	20	21	22	23	24	25													

Now you could go through the entire calendar selecting single days but it would be very time consuming.

You might also notice that if you hover the mouse over the S,M,T,W,T,F,S letters representing the day of the week, that particular day will be highlighted for the entire month. We will call this the "Same Day" selecting mode. Press the left mouse button on these letters to select that day for the entire month as shown in figure 7, or press the right mouse button on the day letter to deselect.

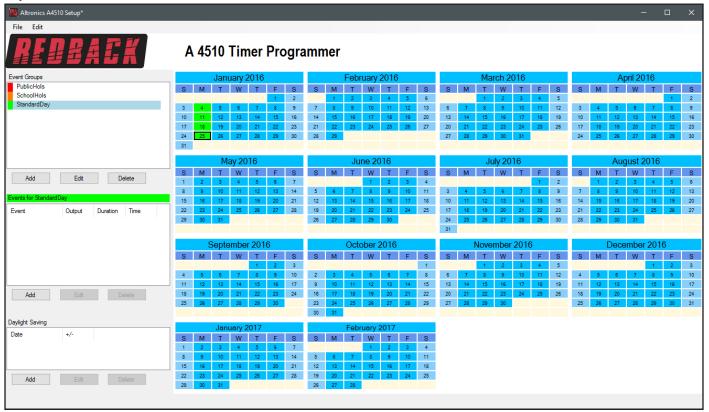


Fig 7

It is also possible to highlight multiple days of the calendar. We will call this the "Multiple Day" selecting mode. Press the left mouse button on a day to select it, now hold down the shift key and move the mouse over the calendar. You will notice that the selected days will flow over the days and months. For the purposes of our example we will select all days of the calendar as shown below (figure 8).

	44510 Setup*																								-	-		×
File Edit	DBAEK	Α	45 1	10 T	ime	r Pr	ogra	amn	ner																			
Event Groups				Janua	ry 201	6				Febr	uary	2016					Ма	rch 2	016					A	oril 20	016		
PublicHols		S	м		ν T		S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	м	Т	W	Т	F	S
SchoolHols						1	2		1	2	3	4	5	6			1	2	3	4	5						1	2
StandardDay	/	3	4	5	6 7		9	7	8	9	10	11	12	13	6	7	8	9	10	11	12	3	4	5	6	7	8	9
		10	11		13 14	_		14	15	16	17	18	19	20	13	14	15	16	17	18	19	10	-11	12	13	14	15	16
			18		20 21	_		21	22	23	24	25	26	27	20	21	22	23	24	25	26	17	18	19	20	21	22	23
		24 31	25	26	27 28	29	30	28	29						27	28	29	30	31			24	25	26	27	28	29	30
		31																										
				May	2016					Ju	ne 20	016					Ju	uly 20	16					Aug	just 2	2016		
		S	М	T	W T	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S
Add	Edit Delete	1	2	3	4 5	6	7				1	2	3	4						1	2		1	2	3	4	5	6
		8	9	10	11 12	_		5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13
Events for Stands		15	16		18 19	_		12	13	14	15	16	17	18	10	- 11	12		- 14	15	16	14	15	16	17		19	20
Event	Output Duration Time				25 26	27	28	19	20	21	22	23	24	25	17	18	19	-	21	22	23	21	22	23	24	25	26	27
		29	30	31				26	27	28	29	30	_		24 31	25	26	27	28	29	30	28	29	30	31			
															31													
			S	eptem	ber 20)16				Octo	ber :	2016					Nove	mber	2010	3				Dece	mbe	r 201	6	
		S	М	T I	W T	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S
					1	2	3							1			1	2	3	4	5					1	2	3
		4	5		78			2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10
		11	12		14 15			9	10	11	12	13	14	15	13	- 14	15	16	17	18	19	11	12	13	14	15	16	17
Add	Edit Delete	18	19		21 22			16	17	18	19	20	21	22	20	21	22	_	24	25	26	18	19	20	21	22	23	24
		25	26	27	28 29	30		23 30	24 31	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30	31
Daylight Saving								30																				
Date	+/-			Janua	ry 201					Febr	ruary :	2017																
Udte	*/-	-	М	T	W T		-	S	М	Т	W	Т	F	S														
		1	2		4 5				_		1	2	3	4														
		8	9		11 12			5	6	7	8	9	10	11														
L		15			18 19			12 19	13		15 22	16 23	17 24	18 25														
Add	Edit Delete		23 30		25 26	27	28	19 26	20 27	21 28	22	23	24	25														
		25	-00	31				26	21	28																		
				_		_		_	_		_	_	_	_	_	_	_	_	_	_			_	_	_			

NOTE: In this mode Saturday and Sunday cannot be selected, unlike in the "Single Day" or "Same Day" selecting modes. It is also not possible to deselect multiple days so be sure you have selected the correct days. The easiest way to deselect multiple days is to use the "Same Day" deselection process.

We will now enter all the (Western Australian) school and public holidays, using a combination of "Single Days", "Same Day " and "Multiple Days" methods. The result is shown below in figure 9.

Altronics A4510 Setup - F:\																									-	_		×
File Edit																												
REDBACK	Α	45	10 -	Tim	ner	Pro	ogra	mn	ner																			
Event Groups			Janu	Jary 2	2016					Febr	uary	2016					Ma	rch 2	016					A	pril 20	016		
PublicHols	S	М	Т	w		F	S	S	М	Т	w	Т	F	S	S	М	Т		Т	F	S	S	м	Т	w	Т	F	S
SchoolHols						1	2		1	2	3	4	5	6			1	2	3	4	5						1	2
StandardDay	3	- 4	5	6	7	8	9	7	8	9	10	11	12	13	6	7	8	9	10	11	12	3	4	5	6	7	8	9
	10	11	12	13	14	15	16	14	15	16	17	18	19	20	13	14	15	16	17	18	19	10	11	12	13	14	15	16
	17	18	19	20	21	22	23	21	22	23	- 24	25	26	27	20	- 21			- 24	- 25	26	17	18	19	20	21	22	23
	24	25	26	27	28	29	30	28	29						27	- 28	29	30	31			24	25	26	27	28	29	30
	31																											
			Ma	ay 20	16					Ju	ne 20	16					Ju	uly 20	16					Au	gust 2	2016		
	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S
Add Edit Delete	1	2	3	4	5	6	7				1	2	3	4						1	2		1	2	3	4	5	6
County for Distribute	8	9	10	- 11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13
Events for PublicHols	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	-11	12	13	14	15	16	14	15		17	_	19	20
Event Output Duration Time	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	_	_	21	_	23	21		23		25	26	27
	29	30	31					26	27	28	29	30			24	25	26	27	28	29	30	28	29	30	31			
															31													
		S	Septe	mber	r 201	6				Octo	ber 2	2016					Nove	mber	201	6				Dece	embe	r 201	6	
	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S
					1	2	3							1			1	2	3	4	5					1	2	3
	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10
	11	12	13	14	15	16	17	9	10	11	12	13	-	15	13	14	-	-	17	-	19	11	12			15	16	17
Add Edit Delete	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	_	_	24	25	26	18	19	20	21	22	23	24
	25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30	31
Daylight Saving								30	31																			
			Janu	lary 2	2017					Febr	uary 2	2017																
Date +/-	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S														
	1	2	3	4	5	6	7				1	2	3	4														
	8	9	10	11	12	13	14	5	6	7	8	9	10	11														
	15	16	17	18	19	20	21	12	13	14	15	16	17	18														
Add Edit Delete	22	23	24	25	- 26	27	28	19	20	21	22	23	24	25														
	29	30	31					26	27	28																		

Fig 9

The basic calendar is now setup for the current year as well as the first two months of next year. At this stage additional Event Groups could be added for Student Free days, School Carnivals etc.

3.0 ADDING EVENTS FOR A GROUP

With the Event Groups setup, we now need to program the events that will occur for these groups.

In our example we will program the events to occur on a standard primary school day. Begin by selecting the StandardDay group from the Event Groups window. Next press the "ADD" button below the Events window (just above the Daylight Saving window). A New Event window as shown below should appear.

New Event		
Name	Maximum 12 characters: 12 remaining	
Start	00 ~ : 00 ~ : 00 ~	
Duration	00 V Minutes	
	00 V Seconds	
Output	Disabled \checkmark	
	OK	Fig
_		

An event can now be programmed from this window. A description of the event can be added (such as Pre bell, Morning Tea etc), the start time and the duration can all be entered. There are 99 output folders available to choose from, which include the Bell, Prebell, Music and output folders 5 - 99. These folders contain the audio files to be played on event activation. The Bell option will play the MP3 audio file in the "Bell" folder of the Micro SD card.

NOTE: Only one MP3 file is allowed in the "Bell" folder. The remaining folders can have unlimited audio files (depending on available storage) and will then randomly play the audio files in the folder any time the corresponding output is activated.

The last option for the output is the RELAY option, which when used has no audio output, but will activate the "Relay only" and "Common" 24V DC switched outputs.

The first event we will program we will label "PrebellMusic". We will use this event to play a music track to notify students that the first bell will sound soon and that they are to start making their way to their classrooms. Type in the label name, and then enter the start time and duration the MP3 is to play. *NOTE: The start time is in 24 hour format.*

NOTE: The durations for the Prebell, Bell, Music and Relay outputs can all be set to a default time (refer to section 4.0 for more information).

We will select the output as the Prebell, so that when this event is activated the MP3 files in the "Prebell" folder of the Micro SD card will be played.

NOTE: If more than one MP3 file is in the Prebell folder, then each time this output is activated, a random MP3 audio file (from the Prebell folder) will be played.

New Event		
Name	PrebellMusic Maximum 12 characters: 0 remaining.	
Start	08 ~ : 25 ~ : 00 ~	
Duration	05 V Minutes	Fig 11
	00 V Seconds	i ig i i
Output	Pre-Bell ~	
	OK Cancel	

Enter all details and then press the "OK" button. The Event should now appear in the events list for the StandardDay group as shown below in figure 12.

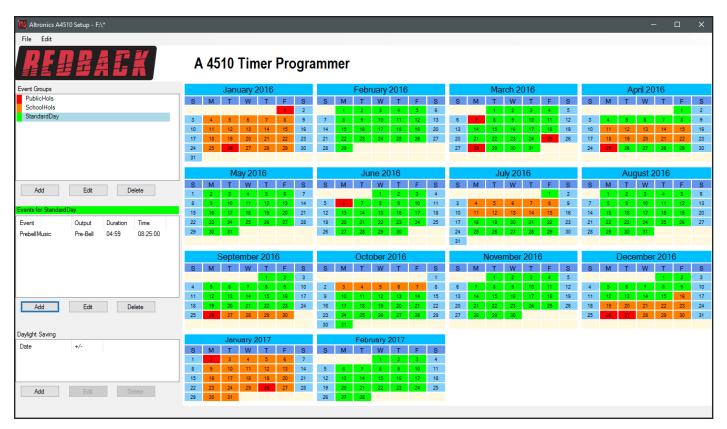


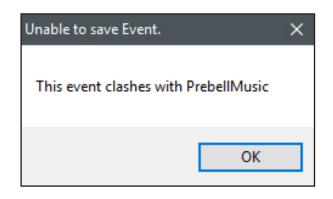
Fig 12

The Prebell has been programmed to start at 8:25 AM and play the MP3 file in the "Prebell" folder for five minutes.

Now let's repeat the process for the first bell of the day which will occur at 8:30AM. We will enter the details as shown in the figure to the right. The start time is set to 08:30:00, with a duration of 3 seconds. The output is set to Bell, which will activate the one and only MP3 audio file allowed in the "Bell" folder of the Micro SD card.

Name	FirstBell
	Maximum 12 characters: 3 remaining.
Start	08 ~ : 30 ~ : 00 ~
Duration	03 ~ Minutes
	00 V Seconds
Output	Bell 🗸

After the details are entered we press OK to confirm, only to receive a error message "Unable to save Event".



This has occurred because there is an overlap of times. The "PrebellMusic" Event and the "FirstBell" Event overlap at 08:30:00. If we change the duration of the first event (PrebellMusic) to 4:59, then the first event will finish at 08:59:59 and then the overlap is removed.

To change the PrebellMusic Event ,simply highlight this event and press the edit button. The Event window will appear and then the changes can be made. Once done, the FirstBell Event can be programmed and saved and will appear in the Events list as shown in figure 13.

KERAE																												
		A 4	510	Tin	ner	Pro	ogra	Imn	ner																			
vent Groups			Janu	Jary 2	2016					Febr	uary 2	2016					Ma	rch 2	016					A	oril 20	016		
PublicHols	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	т	W	Т	F	S	S	М	т	W	Т	F	
SchoolHols						1	2		1	2	- 3	4	5	6			1	2	3	4	5						1	
StandardDay	3	4	5	6	7	8	9	7	8	9	10	11	12	13	6	7	8	9	10	-11	12	3	4	5	6	7	8	
	10	11	12	13	14	15	16	14	15	16	17	18	19	20	13	14	15	16	17	18	19	10	11	12	13	14	15	
	17	18		20	21	22	23	21	22	23	24	25	26	27	20	21	22	23	24	25	26	17	18	19	20	21		- 1
	24	25	26	27	28	29	30	28	29						27	28	29	30	31			24	25	26	27	28	29	
	31																											
			Ma	ay 20	16					Jur	ne 20	16					Ju	ily 20	16					Aug	just 2	2016		
	s	М	Т	w	т	F	S	S	М	т	W	т	F	S	S	М	т	w	Т	F	S	S	М	т	w	Т	F	
Add Edit Dele	te 1	2	3	4	5	6	7				1	2	3	4						1	2		1	2	3	4	5	
	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	
ents for StandardDay	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	
vent Output Duration	Time 22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	
rebellMusic Pre-Bell 04:59	08:25:00 29	30	31					26	27	28	29	30			24	25	26	27	28	29	30	28	29	30	31			
irstBell Bell 00:03	08:30:00														31													
			Septe	mbe	r 201	6				Octo	ber 2	016					Nove	mber	2016	3			1	Dece	mbe	r 201	6	
	S	м	Т	W	т	F	S	S	М	т	W	т	F	S	S	м	т	W	т	F	S	S	М	т	W	Т	F	1
					1	2	3	-						1			1	2	3	4	5					1	2	
	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	
	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	
Add Edit Dele	te 18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	- 24	25	26	18	19	20	21	22	23	
	25	- 26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30	- 1
								30	- 31																			
aylight Saving			lanı	uary 2	017					Eobr	uary 2	017																
ate +/-	s	м	T	w	т	F	S	S	М	т	W	.017	F	s														
	1	2	3	4	5	6	7	0	IVI		1	2	3	4														
	8	9	10	11	12	13	14	5	6	7	8	9	10	11														
	15	16	17	18	19	20	21	12	13	14	15	16	17	18														
Add Edit Dele	22	23	24	25	26	27	28	19	20	21	22	23	24	25														
Add Edit Dele	te 29	30	31					26	27	28																		



To make the programming of the events easier, default durations can be setup for the outputs. For instance you may require the Bell to always activate for three seconds. The default duration can be set to 3 seconds and hence whenever the Bell is selected as the output for an event, the duration will automatically default to 3 seconds. (Note: This can still be modified to any time). To set the defaults refer to section 4.0.

We will now enter the rest of the events for the school day as shown below. The Bell output has been selected for the rest of the events for the day, including morning recess, end of recess, lunch, end of lunch and end of the day.

NOTE: If we had an event we wanted to create which was similar to another event already programmed, we could copy this event and then make changes. This can be achieved by using the "Duplicate Event" option (refer to section 5.0 for more details).

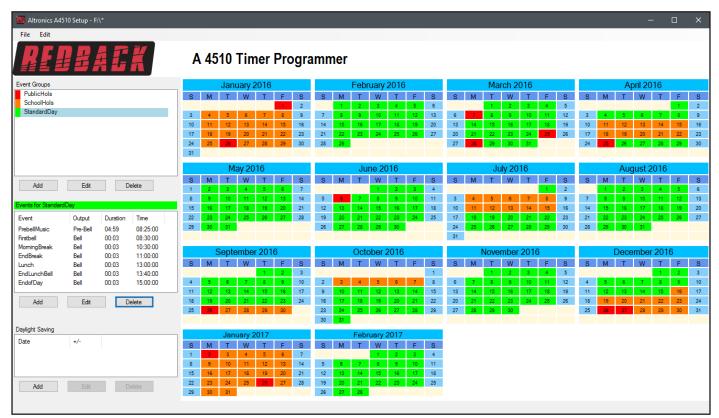


Fig 14

We will save the calendar configuration again by navigating to the "File" menu in the top left corner and selecting "Save".

NOTE: When the save button is pressed the configuration will be saved to the root directory from which the software was run. In our case we ran the software directly from the Micro SD card, so all configuration information will be saved to the Micro SD card. If we wish to save the configuration elsewhere we could use the "Save As" option which would allow us to navigate to another folder. There is no option to save the configuration with a preferred name. The configuration file is saved to the CONFIG folder and the event group information is saved to the GROUPS folder.

With the events for the Standard School Day entered, its now a matter of entering the events for the other Event groups following the same procedure.

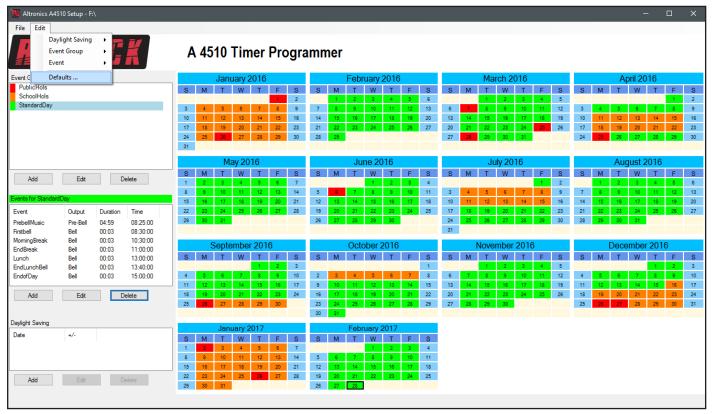
Make sure the configuration is saved and then remove the Micro SD card from the Windows based device following windows safe card removal procedures. Make sure the A 4510B is OFF and insert the Micro SD card into the slot in the front; it will click when fully inserted.

The A 4510B can now be switched On. If all is well, after the startup screen is displayed the current time and list of the events should be displayed on the screen.

4.0 DEFAULTS

It is possible to change the colour scheme of the programming screen and also set default duration times for each of the Bell, Prebell, Music and Relay outputs.

Navigate to the "Edit" menu in the top left corner and select "Defaults..." as shown below in figure 15.





The Defaults window should appear as shown below.

Defaults						
	_			1		_
Weekday Cell Colour		Default PreBell duration	00 ~	Minutes	00 ~	Seconds
Weekend Cell Colour		Default Bell duration	00 ~	Minutes	00 、	 Seconds
Month Title Colour		Default Relay duration	00 ~	Minutes	00 、	Seconds
Day Legend Colour		Default Music duration	00 ~	Minutes	00 🕓	 Seconds
		_				
	OK		Cano	cel		

From here the Weekday Cell colour, Weekend Cell colour, Month Tile colour and Day Legend colour can be changed to any colour in the full colour spectrum.

The default durations for each of the Bell, Prebell, Music and Relay outputs can also be set here. For our example we will set the Prebell duration to 4 minutes and 59 seconds, the Bell duration to 3 seconds and the Music duration to 4 minutes and 59 seconds as shown below.

Now whenever we create a new Event the duration of the selected output will default to these settings.

Weekday Cell Colour Weekend Cell Colour	Default PreBell duration	04 ~	Minutes	59 ~	
Weekeed Call Caleur				JJ V	Seconds
Weekend Cell Colour	Default Bell duration	00 ~	Minutes	03 ~	Seconds
Month Title Colour	Default Relay duration	00 ~	Minutes	00 ~	Seconds
Day Legend Colour	Default Music duration	04 ~	Minutes	59 ~	Seconds

5.0 DUPLICATING AN EVENT IN A GROUP

In section 3.0 we illustrated the processes involved in creating the Events for a Group (In this case the StandardDay Group). With each of the events the start time, duration and output had to entered manually.

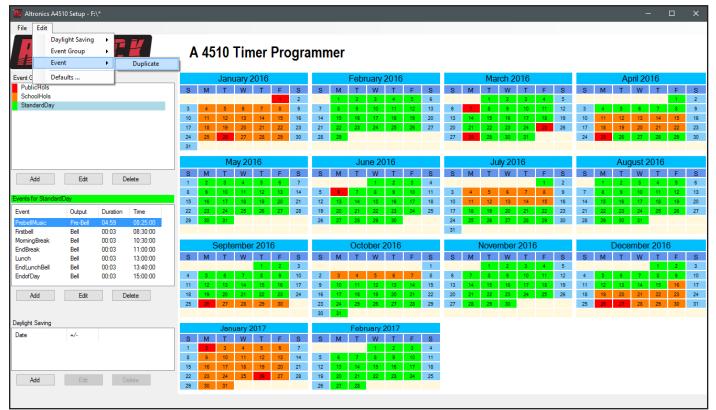
The programming software has the ability to copy (or duplicate) an event which may speed up the process if similar events are to be programmed.

This process will be demonstrated in the following example.

As we programmed for the start of the day with a prebell music event, we will do the same for the call to return to class after lunch. An event labelled "EndLunchMus" will sound five minutes before the lunch break finishes to notify the students that they should start to make their way back to class. For the output of this event we will use the "Music" output. This will use the MP3 files in the music folder of the Micro SD card. This can be useful if a different set of music tracks is required for an event.

This event is very similar to the "PrebellMusic" Event we programmed as the first event of the standard day. We will duplicate this event and then modify it create an after lunch break event.

Begin by highlighting the "PrebellMusic" Event in the StandardDay Group. Navigate to the "Edit" menu in the top left corner and then select "Event, Duplicate" as shown in figure 16.





The Duplicate Event window should now appear with the "PrebellMusic" event properties as shown in figure 17.

Duplicate I	Event
Name	PrebellMusic Maximum 12 characters: 0 remaining.
Start	08 🗸 : 25 🗸 : 00 🗸
Duration	04 ~ Minutes
	59 V Seconds
Output	Pre-Bell ~
	OK Cancel



We will change the Event name to EndLunchMus and change the start time to five minutes before the end of lunch bell as shown in figure 18. We will select the output to the Music folder instead of the Prebell folder as we want to play a series of different music files.

NOTE: The Event name can be the same as another event, but the times cannot clash.

Duplicate E	Event
Name	EndLunchMus Maximum 12 characters: 1 remaining.
Start	13 ~ : 35 ~ : 00 ~
Duration	04 V Minutes
	59 V Seconds
Output	Music ~
	OK Cancel

Fig 18

The new event now appears in the Event list for StandardDay as shown in figure 19.

Altronics A4	510 Setup - F	A																														×
File Edit																																
RE		Ē	K		A	45	10 -	Tin	ner	Pro	ogra	mn	ner																			
Event Groups							Janu	Jary 2	2016					Febr	uary	2016	5				Ma	rch 2	016					Ap	ril 20	16		
PublicHols					S	М	т	w	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S
SchoolHols										1	2		1	2	3	4	5	6			1	2	3	4	5						1	2
StandardDay					3	- 4	5	6	7	8	9	7	8	9	10	11	12	13	6	7	8	9	10	11	12	3	- 4	5	6	7	8	9
					10	11	12	13	14	15	16	14	15	16	17	18	19	20	13	- 14	15	16	17	18	19	10	11	12	13	14	15	16
					17	18	19	20	21	22	23	21	- 22	23	24	25	26	27	20	- 21	22	23	- 24	25	26	17	18	19	20	21	22	23
					24	25	26	27	28	29	30	28	29						27	- 28	29	30	- 31			24	- 25	26	27	28	29	30
					31																											
							Ma	ay 20	16					Ju	ne 20)16					Ju	uly 20	16					Aug	just 2	016		
				_	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S
Add	Edit	De	elete		1	2	3	4	5	6	7				1	2	3	4						1	2		1	2	3	4	5	6
					8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	- 4	5	6	7	8	9	7	8	9	10	11	12	13
Events for Standar	dDay				15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20
Event	Output	Duration	Time	^	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27
Firstbell	Bell	00:03	08:30:00		29	30	31					26	27	28	29	30			24	25	26	27	28	29	30	28	29	30	31			
MorningBreak	Bell	00:03	10:30:00																31													
EndBreak	Bell	00:03	11:00:00			S	Septe	mbe	r 201	6				Octo	ober 2	2016					Nove	mber	2016	3				Dece	mbei	2016	6	
Lunch EndLunchMus	Bell Music	00:03 04:59	13:00:00 13:35:00		S	м	т	w	T	F	S	S	м	т	w	т	F	S	S		т	W	т	F	S	S	м	т	w	T	F	S
EndLunchMus	Bell	04:59	13:35:00		0	IMI		vv	1	2	3	3	Ivi		vv			1	3	Ivi	1	2	3	4	5	3	IMI		vv	1	2	3
EndofDay	Bell	00:03	15:00:00		4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10
			10.00.00	×	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17
Add	Edit	De	lete		18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24
					25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30				25	- 26	27	28	29	30	31
												30	31																			
Daylight Saving							Inc	Jary 2	017					Eater	ruary :	2017																
Date	+/-				S	М	Janu	uary 2 W	2017 T	F	S	S	м	T	W		F	S														
					1	IMI 2	3	W	5	6	5 7	8	M		W 1	T 2	-	S 4														
					8	9	10	11	12	13	14	5	6	7	8	9	10	11														
					15	16	17	18	19	20	21	12	13	14	15	16	17	18														
				_	22	23	24	25	26	27	28	19	20	21	22	23	24	25														
Add	Edit	De	elete		29	30	31					26	27	28																		
																														_	_	



We will save the calendar configuration again by navigating to the "File" menu in the top left corner and selecting "Save".

NOTE: When the save button is pressed the configuration will be saved to the root directory from which the software was run. In our case we ran the software directly from the Micro SD card, so all configuration information will be saved to the Micro SD card. If we wish to save the configuration elsewhere we could use the "Save As" option which would allow us to navigate to another folder. There is no option to save the configuration with a preferred name. The configuration file is saved to the CONFIG folder and the event group information is saved to the GROUPS folder.

6.0 DUPLICATING AN EVENT GROUP

The A 4510B software has a Duplicate Event Group feature which can speed up the programming process. With this function any Event Group can be duplicated and then edited.

In the previous examples a standard school day has been programmed into the timer software.

What if Monday's timetable was different to the other days of the week because every Monday the school has an assembly. We could add another Event Group for Monday's and program the events for the group manually, or we could use the duplicate Event Group function to copy the "Standard Day" Group and then modify the event.

The process will be illustrated by the following example.

We begin by selecting the "StandardDay" Event group from the Event groups window.

The duplicate Event Group feature is accessed by navigating to the "Edit" menu in the top left corner and then selecting Event group, Duplicate as shown in figure 20.

File Edit	: A4510 Setup - F:																												-			×
	Daylight Saving	•																														
!!	Event Group	•	Duplicate		Δ	45	10	Tim	ner	Pro	ogra	ımn	ner																			
	Event	• 🐖						• • • •			git																					
vent G	Defaults						Jani	Jary 2	2016					Fehr	uary 2	2016					Ma	rch 2	016					Δr	oril 20	16		
PublicHols					S	м	Т	w	т	F	S	s	м	Т	w	т	F	S	S	м	T	W	т	F	S	S	м	Т	W	т	F	1
SchoolHol				_	Ŭ					1	2	Ŭ	1	2	3	4	5	6	Ū		1	2	3	4	5	Ŭ					1	
StandardD	ау				3	4	5	6	7	8	9	7	8	9	10	11	12	13	6	7	8	9	10	- 11	12	3	4	5	6	7	8	
					10	11	12	13	- 14	15	16	- 14	15	16	17	18	19	20	13	- 14	15	16	17	18	19	10	- 11	12	13	- 14	15	1
					17	18	19	20	21	22	23	21	22	23	24	25	26	27	20	21	22	23	24	25	26	17	18	19	20	21	22	:
					24 31	25	26	27	28	29	30	28	29						27	28	29	30	31			24	25	26	27	28	29	3
					31																											
							Ma	ay 20	16					Jur	ne 20	16					Ju	ily 20	16					Aug	just 2	016		
Add	Edit)elete		S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	
Add	Ear		Jelele		1	2	3	4	5	6	7				1	2	3	4						1	2		1	2	3	4	5	
vents for Star	ndardDav				8 15	9 16	10 17	11 18	12 19	13 20	14 21	5 12	6 13	7	8 15	9 16	10 17	11 18	3 10	4	5 12	6 13	7	8 15	9 16	7	8 15	9 16	10 17	11 18	12	
Event	Output	Duration	Time	^	22	23	24	25	26	20	21	12	20	21	22	23	24	25	10	18	12	20	21	22	23	21	22	23	24	25	19 26	
Firstbell	Bell	00:03	08:30:00		29	30			~~	~/	20	26	27	28		30		20	24	25	26	-	28	29	30	28	29	30	31	~~	~~	
MorningBreak		00:03	10:30:00																31													
EndBreak	Bell	00:03	11:00:00				Septe	mbo	- 201	c				Oato	ber 2	016					lovo	mber	2016					Deee	mbor	2016	0	
Lunch	Bell	00:03	13:00:00		S	M	т	w	T	F	S	S	м	T	w	2010	F	S	S		T	w	2010 T	F	S	S	м	т	w	2010 T	F	
EndLunchMu EndLunchBel		04:59 00:03	13:35:00 13:40:00		5	M		vv	1	F 2	3	8	M	- 1	W		F	1	5	М	1	2	3	4	5	8	M		VV	1	F 2	
EndofDav	Bell	00:03	15:00:00		4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	1
				~	11	12	13	14	15	16	17	9	10	- 11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	1
Add	Edit	[)elete		18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	2
					25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30				25	- 26	- 27	28	29	30	3
												30	31																			
aylight Savin							Jani	uary 2	2017					Febr	uary 2	2017																
)ate	+/-				S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S														
					1	2	3	4	5	6	7				1	2	3	4														
					8	9	10	11	12	13	14	5	6	7	8	9	10	11														
					15 22	16 23	17 24	18 25	19	20 27	21 28	12 19	13 20	14 21	15 22	16 23	17 24	18 25														
Add					22	23	24	20	-26	-27	28	26	20	21	- 22	23	24	23														

Fig 20

The Duplicate Event Group window should now appear with the "StandardDay" event group properties as shown in figure 21.

Duplicate Event Group	1
Name StandardDay Maximum 12 characters: 1 remaining.	Colour
ОК	Cancel

Fig 21

Type in a different name, change the colour and then press OK. For our example we will use the name Mondays and change the colour to yellow as shown in figure 22.

NOTE: The same name cannot be used for the new Event Group.

Duplicate	Event Group	
Name	Mondays Maximum 12 characters: 5 remaining.	Colour
C	К	Cancel



The New Mondays Event Group created will now appear in the Event Groups as shown in figure 23.

File Edit																																
RE		ł	K		A	45	10	Tin	ner	Pro	ogra	mn	ner																			
Event Groups							Janu	Jary 2	2016					Febr	uary	2016					Ма	rch 2	016					Ap	oril 20	16		
Mondays					S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S
PublicHols										1	2		1	2	- 3	4	5	6			1	2	3	4	5						1	2
SchoolHols StandardDay					3	4	5	6	7	8	9	7	8	9	10	11	12	13	6	7	8	9	10	11	12	3	4	5	6	7	8	- 9
StandardDay					10	11	12	13	14	15	16	14	15	16	17	18	19	20	13	14	15	16	17	18	19	10	11	12	13	- 14	15	1
					17	18	19	20	21	22	23	21	22	23	- 24	25	26	27	20	21	22	23	24	25	26	17	18	19	20	21	22	23
					24	25	- 26	27	28	29	30	28	29						27	- 28	29	30	31			24	25	26	27	28	29	- 30
					31																											
					Ma	ay 20	16					Ju	ne 20	16					Ju	uly 20	16					Auc	just 2	016				
		_			S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	w	Т	F	S
Add	Edit	D	elete		1	2	3	4	5	6	7				1	2	3	4						1	2		1	2	3	4	5	e
					8	9	10	-11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	- 13
Events for Monday	-					16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	- 14	15	16	14	15	16	17	18	19	2
Event	Output	Duration	Time	^	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	2
Firstbell	Bell	00:03	08:30:00		29	30	31					26	27	28	29	30			24	25	26	27	28	29	30	28	29	30	31			
MorningBreak	Bell	00:03	10:30:00																31													
EndBreak	Bell	00:03	11:00:00			0	Septe	mhe	r 201	6				Octo	ber 2	016					Nove	mber	2016	3				Dece	mhei	2016	3	
Lunch	Bell	00:03	13:00:00		S	M	т	w	T	F	S	S	м	T	w	т	F	S	S	м	т	w	T	F	S	S		т	w	T	F	s
EndLunchMus EndLunchBell	Music Bell	04:59 00:03	13:35:00 13:40:00		3	Ivi		vv	1	2	3	3	IVI		vv			1	3	IVI		2	3	г 4	5	3	IMI		vv	1	г 2	3
EndofDav	Bell	00:03	15:00:00		4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8		10	11	12	4	5	6	7	8	9	10
Lidorbay	Dell	00.05	13.00.00	~	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	1
Add	Edit	D	elete		18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	_	24	25	26	18	19	20	21	22	23	24
Aud	Luit		cicre		25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30	3
												30	31					1			1											
Daylight Saving							lan	uary 2	0017					Fabr	uary 2	017																
Date	+/-					м	Jani	w W		F	S	S	м	T	<u> </u>	_		0														
					S 1	IM	3	- VV	T 5	6	5 7	8	M		W	T	F 3	S 4														
					1	9	3 10	4	12	13	14	5	6	7	1	9	3 10	11														
					° 15	16	17	18	12	20	21	12	13	14	° 15	16	17	18														
		_			22	23	24	25	26	20	28	19	20	21	22	23	24	25														
Add			elete		29	30	31					26	27	28																		

Fig 23

We will then edit the events for the newly created Mondays Event Group and add an assembly at 9:30 am. Finally the relevant school term Monday's will be selected on the calendar. The result is shown in figure 24.

Altronics A45	10 Setup - F:	1							-																				-	<u> </u>		×
RE		Ē	K		A	45	10	Tin	ner	Pro	ogra	mn	ner																			
event Groups							Janu	Jary 2	2016					Febr	uary	2016	i				Ма	rch 2	016					Ap	oril 20	16		
Mondays					S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	т	W	Т	F	S	S	М	Т	W	Т	F	Ş
PublicHols SchoolHols										1	2		1	2	3	4	5	6			1	2	3	4	5						1	
SchoolHois StandardDay					3	4	5	6	7	8	9	7	8	9	10	11	12	13	6	7	8	9	10	11	12	3	4	5	6	7	8	
Standardbay					10	11	12	13	14	15	16	14	15	16	17	18	19	20	13	14	15	16	17	18	19	10	11	12	13	- 14	15	
					17	18	19	20	21	22	23	21	22	23	24	25	26	27	20	21	22	23	24	25	26	17	18	19	20	21	22	2
					24	25	26	27	28	29	30	28	29						27	- 28	29	30	31			24	25	26	27	28	29	3
					31																											
							Ma	ay 20	16					Ju	ne 20	016					Ju	ıly 20	16					Aug	just 2	016		
Add	Edit		Delete		S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	
Add	Edit		Jelete		1	2	3	4	5	6	7				1	2	3	4						1	2		1	2	3	4	5	
vents for Mondays					8	9	10	-11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	
		1			15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	1
Event	Output	Duration	Time	^	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	:
PrebellMusic	Pre-Bell	04:59	08:25:00		29	30	31					26	27	28	29	30			24 31	25	26	27	28	29	30	28	29	30	31			
Firstbell	Bell Bell	00:03	08:30:00																31													
Assembly MorningBreak	Bell	00:03 00:03	09:30:00 10:30:00			5	Septe	mbe	r 201	6				Octo	ber 2	2016				I	love	mber	2016	3				Dece	mbei	r 201(6	
EndBreak	Bell	00:03	11:00:00		S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	1
Lunch	Bell	00:03	13:00:00						1	2	3							1			1	2	3	4	5					1	2	
EndLunchMus	Music	04:59	13:35:00	~	- 4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	- 4	5	6	7	8	9	1
Endlunch Poll	Dall	00.00	12-40-00	*	11	12	13	- 14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	1
Add	Edit	0	Delete		18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	:
					25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30	3
												30	31																			
aylight Saving				_			Jani	uary 2	2017					Febr	uary 2	2017																
)ate	+/-				S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S														
					1	2	3	4	5	6	7				1	2	3	4														
					8	9	10	-11	12	13	14	5	6	7	8	9	10	11														
				_	15	16	17	18	19	20	21	12	13	14	15	16	17	18														
Add	Edit		Delete		22	23	24	25	26	27	28	19	20	21	22	23	24	25														
					29	30	31					26	27	28																		



7.0 SELECTING THE AUDIO FILES FOR THE OUTPUT FOLDERS

As mentioned previously there are a total of 99 output folders to select from for event playback. To move audio files to these folders the "Card Manager" will need to be opened. With the PC software running as outlined in section 1.0, navigate to the "File" tab as shown in figure 25.

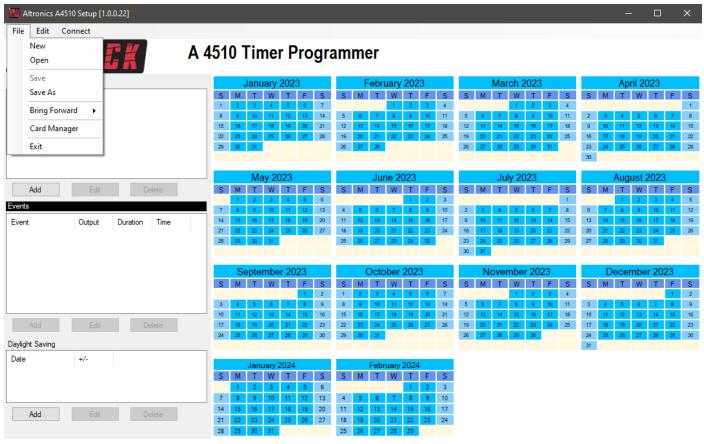
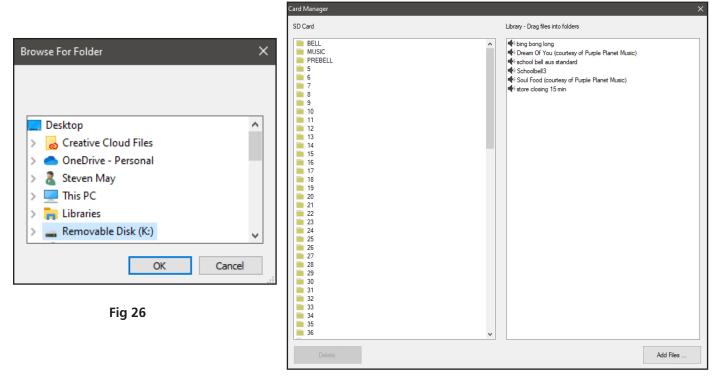


Fig 25

Select "Card Manager" and then from the "Browse for Folder" window (figure 26) select the location of the SD card contents, which in our case is Removable Disk (K:) and press OK. A browsing window should appear as shown in figure 27





The output folders are listed on the left side, and the audio files available in the Library, on the right. From here the audio files in the library, can be dragged into the required folders for the events programmed.

By default the output folders Bell, Music and Prebell should all house an audio file. The timer checks these folders on power up, and if any of the relevant folders are empty the timer will not operate.

To check the contents, click on the folders and they should open, and list the audio files inside as shown in figure 28.

d Manager			
) Card	L	ibrary - Drag files into folders	
BELL Image: School bell aus standard MUSIC Image: School bell aus standard Image: School bell aus		 ^c bing bong long ^c Dream Of You (courtesy of Purple Planet Music) ^c school bell aus standard ^c Schoolbell3 ^c Soul Food (courtesy of Purple Planet Music) ^c store closing 15 min 	
Delete			Add Files

Fig 28

To add a file to a folder simply drag the file from the library to the SD card output folders, such as the example shown in figure 29 in which the file "Dream of You" is copied to folder 10.

		×
3D Card	Library - Drag files into folders	
 BELL School bell aus standard MUSIC Courtesy of Purple Planet Music) PREBELL Soul Food (courtesy of Purple Planet Music) Store closing 15 min 5 6 7 8 9 	Soul Food (courtesy of Purple) School bell aus standard Schoolbell3 Soul Food (courtesy of Purple Plar Store closing 15 min	
 □ ● Dream Of You (courtesy of Purple Planet Music) □ □<td></td><td></td>		
26	Fig 29	

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8.0 ADDING AUDIO FILES TO THE LIBRARY

To add MP3 audio files to the Library, navigate to the "File" tab and select "Card Manager" as outlined in section 3.0. Press the "Add Files" button and navigate to the location of the MP3 files to be added to the library. In the example below the Music folder is selected. *Note: The audio files must be of the .MP3 type.*

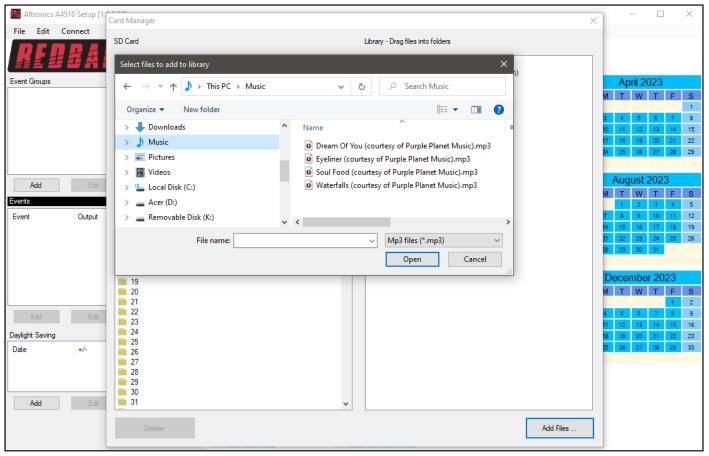
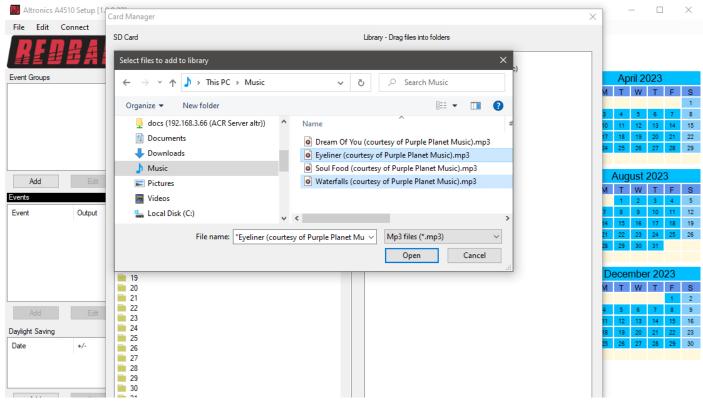


Fig 30

From here a single file, or multiple files as illustrated in figure 31 can be selected.



Once the required MP3 files are selected press the open button. The selected files should now appear in the Library as illustrated in figure 32.

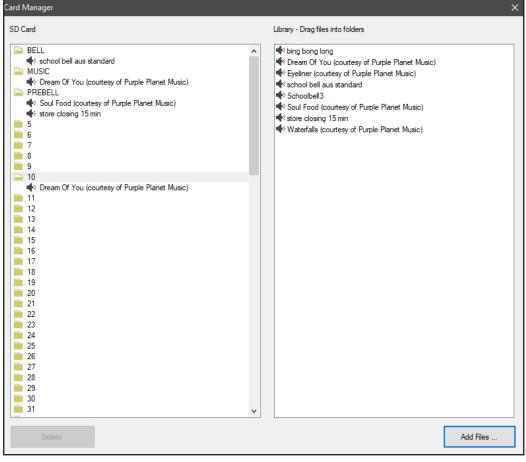
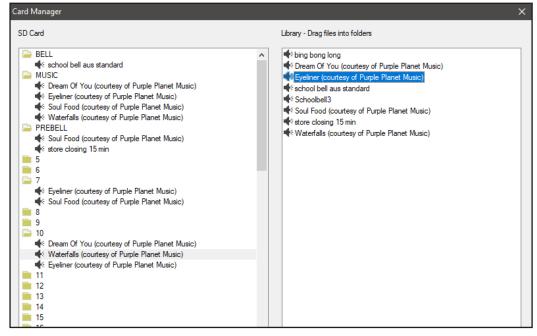


Fig 32

These audio files are now available for use in the output folders.

9.0 RANDOM PLAY OF AUDIO FILES

The timer has the ability to random play audio files, when a particular output is selected for an event. This is available with all folders except the Bell folder. These folders can have multiple audio files allocated, which will play randomly when the output is activated. In the example illustrated in figure 33, extra audio files are dragged into the Music, Prebell, 7 and 10 folders.



10.0 SAVING THE EVENT PROGRAM

Once programming is complete the configuration will need to be saved to the Micro SD card, using the Save or SaveAs opions in the File tab. The configuration file will be saved as A4510.cnf.

If the user wants to keep copies of different programs, the saved file can be accessed on the Micro SD card in the CONFIG Folder. Copies can be renamed and left in this folder or moved to another location for recall. Only the filename A 4510.cnf will be opened by the software.

With the events now programmed on the Micro SD card, the card can be removed from the PC following windows safe card removal procedures. Make sure the timer is OFF and insert the Micro SD card into the slot in the front; it will click when fully inserted.

The timer can now be switched back On. If all is well, after the startup screen is displayed the current time and next event should be displayed on the screen.

11.0 REMOTE ACCESS TO THE TIMER

Note: An IT administrator or someone experienced with network protocols wil be required to setup the network access.

With the addition of the A 4498 Connection Pack, the timer can be accessed over an ethernet network (The connection details are covered in section 3.0 of the accompanying Timer Instruction Manual and the A 4498 manual). This will make it possible to edit the timer events program remotely.

Note: MP3 Audio files cannot be added to the library using the remote connection. The Micro SD card needs to be removed from the timer and the procedure in section 8.0 followed to add additional files.

Once the connection has been setup, the PC software will need to be run from a computer with access to the network. The software executable file "A4510TIMERPROGRAMMER_XXXX.exe" can be copied from the Micro SD Card and then run from the PC. Navigate to the top left corner and press the "Connect" button and the connection window should appear as shown in figure 34.

Altronics A4510 Setup [1.0.0.22]				- 🗆 ×
File Edit Connect				
REDBACK	A 4510 Timer Pro	grammer		
Event Groups	January 2023	February 2023	March 2023	April 2023
	S M T W T F S 1 2 3 4 5 6 7	S M T W T F S 1 2 3 4	S M T W T F S 1 2 3 4	S M T W T F S
	8 9 10 11 12 13 14	5 6 7 8 9 10 11	5 6 7 8 9 10 11	2 3 4 5 6 7 8
	15 16 17 18 19 20 21	12 13 14 15 16 17 18	12 13 14 15 16 17 18	9 10 11 12 13 14 15
	22 23 24 25 26 27 28 29 30 31	19 20 21 22 23 24 25 26 27 28	19 20 21 22 23 24 25 26 27 28 29 30 31	16 17 18 19 20 21 22 23 24 25 26 27 28 29
	29 00 31	23 21 28	20 21 20 23 30 31	30
	May 2023	June 2023	July 2023	August 2023
Add Edit Delete	Connect to A4500 Timer		X M T W T F S	SMTWTFS
Events			1	1 2 3 4 5
	Connect To:	Port 23	3 4 5 6 7 8 10 11 12 13 14 15	6 7 8 9 10 11 12 13 14 15 16 17 18 19
Event Output Duration Time		·	17 18 19 20 21 22	20 21 22 23 24 25 26
	Password:	Connect	24 25 26 27 28 29	27 28 29 30 31
			31	
	September 2023	October 2023	November 2023	December 2023
	S M T W T F S	SMTWTFS	SMTWTFS	S M T W T F S
	1 2	1 2 3 4 5 6 7	1 2 3 4	1 2
	3 4 5 6 7 8 9 10 11 12 13 14 15 16	8 9 10 11 12 13 14 15 16 17 18 19 20 21	5 6 7 8 9 10 11 12 13 14 15 16 17 18	3 4 5 6 7 8 9 10 11 12 13 14 15 16
Add Edit Delete	10 11 12 13 14 15 16 17 18 19 20 21 22 23	15 16 17 18 19 20 21 22 23 24 25 26 27 28	12 13 14 15 16 17 18 19 20 21 22 23 24 25	10 11 12 13 14 15 16 17 18 19 20 21 22 23
	24 25 26 27 28 29 30	29 30 31	26 27 28 29 30	24 25 26 27 28 29 30
Daylight Saving				31
Date +/-	January 2024	February 2024		
	S M T W T F S	SMTWTFS		
	1 2 3 4 5 6	1 2 3		
	7 8 9 10 11 12 13	4 5 6 7 8 9 10		
Add Edit Delete	14 15 16 17 18 19 20	11 12 13 14 15 16 17		
	21 22 23 24 25 26 27 28 29 30 31	18 19 20 21 22 23 24 25 26 27 28 29		
	20 20 30 31	23 26 21 26 23		

Fig 34

This is where the IP address and port number supplied by the IT administrator are entered. (These were setup when the A 4498 connection pack was configured).

Enter the IP address and port number and the default password of 1234 as shown in figure 35. (The password can be

changed by editing a text file named PASS.txt which is located on the Micro SD Card. Open the file using a text editor and change the password to another 4 digit number).

Kantonics A4510 Setup [1.0.0.22]				- 🗆 X
File Edit Connect				
REDBACK	A 4510 Timer Pro	grammer		
Event Groups	January 2023	February 2023	March 2023	April 2023
	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11	S M T W T F S 1 2 3 4 5 6 7 8
	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 - - - - - - - 28	12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 28 24 25	12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
	May 2023	June 2023	July 2023	August 2023
Add Edit Delete	Connect to A4500 Timer		X M T W T F S 1 3 4 5 6 7 8	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12
Event Output Duration Time	Connect To: Password: 1234	Connect	10 11 12 13 14 15 17 18 19 20 21 22 24 25 26 27 28 29	13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1
	September 2023	October 2023	November 2023	December 2023
	SMTWTFS	S M T W T F S 1 2 3 4 5 6 7	S M T W T F S 1 2 3 4	S M T W T F S 1 2
	3 4 5 6 7 8 9 10 11 12 13 14 15 16	8 9 10 11 12 13 14 15 16 17 18 19 20 21	5 6 7 8 9 10 11 12 13 14 15 16 17 18	3 4 5 6 7 8 9 10 11 12 13 14 15 16
Add Edit Delete	17 18 19 20 21 22 23 24 25 26 27 28 29 30	22 23 24 25 26 27 28 29 30 31	19 20 21 22 23 24 25 26 27 28 29 30	17 18 19 20 21 22 23 24 25 26 27 28 29 30

Fig 35

If the connection is successful, then the programming screen should look like that shown in figure 36 with the green "Timer Enabled" box visible. The connection address and time of connection are shown in the top right corner, and new options are now listed on the top left.

If the connection is not successful there could be a number of reasons which are covered in section 11.0.

Altronics A4510 Setup [1.0.0.22]				– 🗆 X
File Edit Disconnect Upload Config Download	d Config Manage Files			
	1510 Timor Dro	Conne	ected to	10.00.10
NEBBALK A	4510 Timer Pro	grammer	er Enabled Sync Time	Tuesday
Event Groups	January 2023	February 2023	March 2023	April 2023
	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
	1 2 3 4 5 6 7	1 2 3 4	1 2 3 4	1
	8 9 10 11 12 13 14	5 6 7 8 9 10 11	5 6 7 8 9 10 11	2 3 4 5 6 7 8
	15 16 17 18 19 20 21 22 23 24 25 26 27 28	12 13 14 15 16 17 18 19 20 21 22 23 24 25	12 13 14 15 16 17 18 19 20 21 22 23 24 25	9 10 11 12 13 14 15 16 17 18 19 20 21 22
	29 30 31	19 20 21 22 23 24 25 26 27 28	19 20 21 22 23 24 25 26 27 28 29 30 31	10 17 18 19 20 21 22 23 24 25 26 27 28 29
				30
	May 2023	June 2023	July 2023	August 2023
Add Edit Delete	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
Events	1 2 3 4 5 6	1 2 3	1	1 2 3 4 5
	7 8 9 10 11 12 13	4 5 6 7 8 9 10	2 3 4 5 6 7 8	6 7 8 9 10 11 12
Event Output Duration Time	14 15 16 17 18 19 20 21 22 23 24 25 26 27	11 12 13 14 15 16 17 18 19 20 21 22 23 24	9 10 11 12 13 14 15 16 17 18 19 20 21 22	13 14 15 16 17 18 19 20 21 22 23 24 25 26
	28 29 30 31	18 19 20 21 22 23 24 25 26 27 28 29 30	23 24 25 26 27 28 29	20 21 22 23 24 25 26 27 28 29 30 31
			30 31	
	September 2023	October 2023	November 2023	December 2023
	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
	1 2	1 2 3 4 5 6 7	1 2 3 4	1 2
	3 4 5 6 7 8 9	8 9 10 11 12 13 14	5 6 7 8 9 10 11	3 4 5 6 7 8 9
	10 11 12 13 14 15 16	15 16 17 18 19 20 21	12 13 14 15 16 17 18	10 11 12 13 14 15 16
Add Edit Delete	17 18 19 20 21 22 23 24 25 26 27 28 29 30	22 23 24 25 26 27 28	19 20 21 22 23 24 25 26 27 28 29 30	17 18 19 20 21 22 23 24 25 26 27 28 29 30
Daylight Saving	24 25 26 27 28 29 30	29 30 31	26 27 28 29 30	24 25 26 27 28 29 30 31
Date +/-	January 2024	Eshavara 2024	r	
	January 2024 SMTWTFS	February 2024 SMTWTFS		
	S M T W T F S 1 2 3 4 5 6	S M T W T F S 1 2 3		
	7 8 9 10 11 12 13	4 5 6 7 8 9 10		
1	7 8 8 10 11 12 13	4 0 7 0 3 10		

Fig 36

12.0 DOWNLOAD EVENT PROGRAM FROM THE TIMER

In order to make changes to the event program stored in the timer, the configuration file will need to be downloaded from the timer. Navigate to and select the "Download Config" tab at the top of the programming window.

A prompt window will appear to confirm the download as shown in figure 37. After downloading the file, the timing events will be displayed and can then be edited in exactly the same manner as outlined in sections 2.0 - 6.0.

The file can be saved to the PC at any time, using the Save or Save As functions. If changes are required to the audio output folders, refer to the Manage Audio Files Remotely in section 13.0. If the program is to be uploaded back to the timer use the Upload Config option outlined in section 14.0.

🕌 Alt	ronics A	4510 Setup [1.	0.0.22]																[\times
File	Edit	Disconnect	Upload Config	Download Config	Manage Files																
					-				c	Connect	ted to	-									
K		BA		A 4510	Timer P	rog	ram	me	r	Timer	Enab	led	Sy	ync T	ìme	Tue	sday				
Event G	àroups				January 2023		Feb	ruary	2023			Ма	arch	202	3			Ap	ril 20	023	
				S M		S S 7	ΜT	W	T F	S 4	SI	МТ	W	T 2		S 2	S N	Т	W	Т	F S
				8 9		14 5	6 7	8	2 3 9 10	4	5	6 7	8	2		4 11	2 3	4	5	6	7 8
				15 16		21 12	13 14	15	16 17	18	12	13 1	4 15	16	17	18	9 10	11	12	13	14 15
				22 23		28 19			23 24	25		20 2		23			6 17	_	_	_	21 22
				29 30	31	26	27 28				26	27 2	8 29	30	31		3 24 0	25	26	27	28 29
																	0				
					May 2023		Ju	ine 20)23			J	uly 2	023				Aug	ust :	2023	3
A	Add	Edit		e S M	T W T F	S S	MT	W	ΤF	S	S I	МI	W	Т	F	S	S N	Т	W	Т	F S
Events				1		6			1 2	3					_	1		1	2	3	4 5
Event		0.4-4	Duration T	7 8 ime 14 15		13 4 20 11	5 6 12 13	7	8 9 15 16	10 17	2	3 4 10 1	1 12	6 13		_	87 314	8	9 16	10 17	11 12 18 19
Event		Output	Duration T	21 22		27 18		_	22 23	24			B 19	20		_	0 21	_	23		25 26
				28 29	30 31	25	26 27	28	29 30		23	24 2	5 26	27	28	29 3	7 2	29	30	31	
			Are you sure	?				×			30	31									
									2023		N		embe	ar 20	123		П	امدما	mhe	r 20	22
			This action	will replace the display	ad config with the	one fre	m vour		TF	S	S	MIT	w	T		S	S N	т	W	T 20	FS
			timer.	will replace the display	ed coning with the	oneno	in your		5 6	7			1	2		4					1 2
									12 13	14		6 7	8	9	10	11	3 4	5	6	7	8 9
			-					_	19 20	21		_	4 15	16		_	0 1	_	_		15 16
		Edit			Yes		No		26 27	28	19	20 2	1 22	23	24	25	7 18	19	20	21	22 23
A	Add	Luit			163		NO	_			26	27 2	_	30			4 25	26	27		29 30

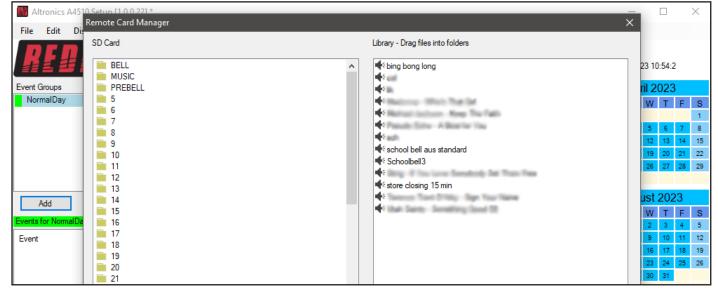
Fig 37

13.0 MANAGE AUDIO FILES REMOTELY

The library is accessed by selecting the "Manage Files" tab which will bring up the Remote Card Manager window as shown in figure 38. This shows the folders and audio files available on the SD card in the timer.

The files are simply dragged into the required folders in the same manner as that outlined in section 7.0.

Note: MP3 Audio files cannot be added to the library using the remote connection as the file transfer is too slow. The Micro SD card needs to be removed from the timer and the procedures in section 8.0 followed to add additional files.



14.0 UPLOAD EVENT PROGRAM TO THE TIMER

The Event Program is uploaded back to the timer, by navigating to and selecting the "Upload Config" tab at the top of the programming window. A prompt window will appear to confirm the upload as shown in figure 39.

AI	tronics /	4510 Setup [1	.0.0.22] *										-			×	C
File	Edit	Disconnect	Upload Config	Download Config	Manage Files												
			53 11	A 4540	Times Dr.		Conn	nected to	o 192.16	8.9.55:2	23 [vB4	.5] [10:5	52:28]				
		B A	5 K	A 4510	Timer Pro	ogramm		mer Enab	bled	Sync	Time	We	dnesda	ay 23/	08/202	3 10:52	2:2
Event (Groups				lanuary 2023	Februa	ry 2023		Mar	ch 20	23			Apri	12023	3	
Nor	malDay			S M	TWTFS	SMTV	VTFS	S	ΜТ	WT		S S	M	Т	W T	F	S
			A	re you sure?				×		1 2		4	_			_	1
									6 7 13 14	8 9 15 16		11 2 18 9		4	5 6 12 13	-	8 15
				This action will replace	ce the config on your	timer with the o	ne displayed.	-	13 14 20 21	15 16	-	18 9 25 10			12 13 19 20	_	15 22
									27 28	29 30		23 2	_		26 27		29
								_				з					
						Yes	No										
					,				Ju	y 202:	3			. <u> </u>	st 202		
	Add	Edit	Delete	S M		SMTV	V T F S	S	ΜТ	ΨT	F	-	M	Т	ΨT	F	
Events	for Norma	alDav		1	2 3 4 5 6 9 10 11 12 13		1 2 3 7 8 9 10					1		1	2 3		5 12
Event		0.1.1	D	7 8			7 8 9 10 4 15 16 17		3 4 10 11	5 6 12 13			7 3 14	8 15	9 10 16 17	_	12
Event		Output	Duration Tin	1e 21 22			1 22 23 24		17 18	19 20	-	22 2	_		23 24		26
				28 29	30 31	25 26 27 2	8 29 30	23	24 25	26 27		29 2	7 28	29	30 31		
								30	31								
				Se	ptember 2023	Octob	ər 2023		Nover	nber 2	2023		De	cem	nber 2	023	
				S M	T W T F S	SMTV	V T F S	S	ΜТ	ΨT	F	S S	M	Т	WT	F	S
					1 2		5 6 7			1 2	-	4					2
				3 4	5 6 7 8 9		1 12 13 14		6 7	8 9		11 3 18 10		5	6 7	_	9
	Add	Edit	Delete	10 11			8 19 20 21 5 26 27 28		13 14 20 21	15 16 22 23	-	18 10 25 11			13 14 20 21	-	16 23
	Add	Edit	Delete	24 25		29 30 31	5 25 21 26	26	20 21 27 28	29 30		25 1		26	20 21 28		23 30
Dayligh	it Saving											3					
Date		+/-															
					January 2024		ry 2024										
				S M		SMTV											
				1	2 3 4 5 6 9 10 11 12 13		1 2 3 8 9 10										
				7 8		4 5 6 7 11 12 13 1	8 9 10 4 15 16 17										
	Add	Edit		21 22			1 22 23 24										

Fig 39

The progress bar will display the progress of the upload and a popup window will notify the successful upload. The timer is now updated with the new Event Program.

15.0 POSSIBLE REASONS FOR CONNECTION FAILURE

There are a number of scenarios where the timer might not be accessible to the programmign software.

ERROR MESSAGE: No connection available to your device

		4540.0	0.0.001																											/
A A	tronics	44510 Setup [1.	0.0.22]																							_	l			<
File	Edit	Connect																												
R		BA	CK		A 4	510) Tin	ne	r P	rog	jra	mı	me	er																
Event (Groups						Janua	iry 2	023			Fe	brua	ary 2	2023	3			Mar	ch 2	202	3				Apr	il 20)23		
								_	ΤF	S	S	М		_	ΤF		s s	M	T	W	Т	F	S	S	М	_	W	_	F	s
						1 2	2 3	4 3	56	7						4				1	2	3	4							1
						8 9	9 10	11 1	12 13	14	5	6	7	8	9 1	0 1			7	8	9	10	11	2	3	4	5	6	7	8
						15 1	16 17	18 1	19 20	21	12	13	14	15	16 1	7 1	8 12	13	14	15	16	17	18	9	10	11	12	13	14	15
						22 2	23 24 3	25 2	26 27	28			21	22	23 2	4 2		_	21	22	23	24	25	16	17	18			21	22
						29 3	30 31				26	27	28				26	27	28	29	30	31		23	24	25	26	27	28	29
																								30						
	Add	Edit	De	elete			May	202	23			J	lune	20	23				Ju	ly 20)23				Α	ugu	ist 2	202	3	
_		Luit		SIGLO	_					-	~	••	-	•••				M	Т	W	Т	F	S	S	М	Т	W	Т	F	s
Events						Connec	t to A45	Net	work l	Error						×							1			1	2	3	4	5
Event		Output	Duration	Time														3	4	5	6	7	8	6	7	8		10	11	12
						Conne	ect To:	No	o conn	ection	availa	able t	to voi	ur de	vice			10		12	13	14	15	13	14	15			_	19
						_		r					,.					17	_	19	20	21	22	20	21	22	_	_	25	26
						Passw	/ord:	l –					_			_	ait	24		26	27	28	29	27	28	29	30	31		
														0	K			31												
						S	eptem	ber	ZUZ	5		00	מטז	erz	UZJ	,		N	over	nbe	r 20)23			De	cen	nbe	r 20	23	
						SI	ИТИ	W 1	ΤF	S	S	М	Т	W	ΤF	: 5	s s	M	Т	W	Т	F	S	S	М	Т	W	Т	F	s
									1	2	1	2	3	4	5 6	7	'			1	2	3	4						1	2
		Edit	De	elete		3 4	4 5	6 1	7 8	9	8	9	10	11	12 1	3 1			7	8	9	10	11	3	4	5	6	7	8	9
									14 15		15	16		_	19 2	_	_			15	16	17	18	10	11	12	13		_	16
Dayligh	it Saving							_	21 22					25	26 2	7 2			_	22	23	24	25	17	18				_	23
Date		+/-				24 2	25 26 3	27 2	28 29	30	29	30	31				26	3 27	28	29	30			24	25	26	27	28	29	30
																								31						
							Janua	iry 2	024			Fe	brua	ary 2	2024															
						S N	N T N	W 1	ΤF	S	S	М	T I	W	ΤF	5	8													
	Add	Edit	De	elete				-	4 5	6					1 2	3	1													
								_	11 12		4	5	~	_	_	1														
							_	_	18 19		11	12	_	_	_	6 1														
									25 26	27				_	_	3 2	4													
						28 2	29 30 3	31			25	26	27	28 :	29															

Fig 40

This error could occur if there is an issue with the physical connections ,or the power to the timer or Serial-To-Ethernet Converter. If this error occurs try the following remedies.

Check Timer power

1) Check the timer has power. If the unit already has power, put the unit into standby mode and then switch back ON. Try connecting again.

2) If the unit still doesn't connect, try removing power from the timer completely by unplgging the power supply. Reconnect power and try again.

Check connecting leads:

1) Check the leads connecting the timer to the adaptor board and D 4231 Serial-To-Ethernet Converter.

Check D 4231 power:

1) Check that the Serial-To-Ethernet Converter (D 4231) has power. If the unit has power, disconnect and reconnect power and try again.

If none of the above remedies work then the error might be because the IP address is incorrect. Check the IP address is correct with the IT administrator.

ERROR MESSAGE: Please enter the correct password

Altronics A4510 Setup [1.0.0.22]	- 🗆 X
File Edit Connect	
REDBACK	A 4510 Timer Programmer
Event Groups	January 2023 February 2023 March 2023 April 2023
	S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 12 13 14 15 16 17 18 12 13 14 15 16 17 18 12 13 14 15
Add Edit Delete	May 2023 June 2023 July 2023 August 2023 August 2023 August 2023 August 2023 August 2023
Events	Connect to A4500 Timer × 1 1 2 3 4 5
Event Output Duration Tim	Connect To: Port 10 11 12 13 14 15 16 17 18 19 Password: 2345 Connect Please wait 24 25 26 27 28 29 27 28 29 30 31
	Incorrect Password × 23 November 2023 December 2023
Add Edit Delete	S M T Please enter the correct password F S M T F S M T V T F S M T V T F S M T V T F S M T V T F S M T V T F S M T V T F S M T V T F S M T V T F S M T V T F S M T V T F S M T V T F S M T U T U T U T U T U T U T U T U T U T U T U T U T <thu< th=""> <thu< th=""> <thu< th=""> <th< th=""></th<></thu<></thu<></thu<>
Add Edit Delete	10 11 12 OK 20 21 12 13 14 15 16 17 18 10 11 12 13 14 15 16
Daylight Saving	17 18 19 27 28 19 20 21 22 23 24 25 17 18 19 20 21 22 23
Date +/-	24 25 26 27 28 29 30 24 25 26 27 28 29 30 31 26 27 28 29 30 24 25 26 27 28 29 30
	January 2024 February 2024
Add Edit Delete	S M T W T F S S M T W T F S 1 2 3 4 5 6 1 2 3 7 8 9 10 11 12 13 4 5 6 7 8 9 10
	14 15 16 17 18 19 20 11 12 13 14 15 16 17 21 22 23 24 25 26 27 18 19 20 21 22 23 24
	28 29 30 31 25 26 27 28 29

Fig 41

This error will occur when the password entered doesn't match the password stored in the timer. The password can be found in a text file named PASS.txt which is located on the Micro SD Card. To change the password open the PASS.txt text file using a text editor and change the password to another 4 digit number.

16.0 SYNC TIME

When the timer is connected to the PC through the ethernet connection, the clock time on the timer can be synchronised with the PC. The times are visible on the programming window as shown in figure 42. Press the "Sync Time" button to synchronise the times.

Altronics A4510 Setup [1.0.0.22]																							_				×
File Edit Disconnect Upload Config Download	Config	g N	/lana	ge Fil	es																						
REDBACK A4	51	D T	in	er	P	rog	jra	m	m	er	C 		ected er Ena			Syne	c Tim	e	w	edne:	sday i	23/08	3/202	23 11	:17:2		
Event Groups		Jar	uar	y 20	23			Fe	bru	ary	20	23			N	/larc	:h 2	02	3				Apr	il 2	023		
	S	M	r N	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	w	Т	F	S	S	М	Т	w	Т	F	S
	1	2 3	3 4	5	6	7				1	2	3	4				1	2	3	4							1
	8	9 1	0 1	12	13	14	5	6	7	8	9	10	11	5	6	7	8	9	10	11	2	3	4	5	6	7	8
	15	16 1	7 18	19	20	21	12	13	14	15	16	17	18	12	13	14	15	16	17	18	9	10	11	12	13	14	15
	22		4 23	26	27	28	19	20	21	22	23	24	25	19	20	21	22	23	24	25	16	17	18	19	20	21	22
	29	30 3	1				26	27	28					26	27	28	29	30	31		23	24	25	26	27	28	29
																					30						
Add Edit Delete		M	lay	202	3				Jun	e 2	023	}				July	/ 20	23				Α	ugi	ust :	202	3	
	S	M	r N	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S
Events		1	2 3	- 4	5	6					1	2	3							1			1	2	3	4	5
Event Output Duration Time	7	8	1	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
	14	15 1	6 1	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19



17.0 DAYLIGHT SAVING

The A 4510B has an optional Daylight Saving mode which is entered through the Programming Software.

In Australia, some of the states have Daylight Saving which begins at 2am on the first Sunday in October when clocks are put forward one hour. It ends at 2am (which is 3am Daylight Saving Time) on the first Sunday in April, when clocks are put back an hour.

To initiate the Daylight Saving mode, press the "Add" button on the bottom left of the programming screen under the Daylight Saving Window. The Daylight Saving window should appear as shown below.

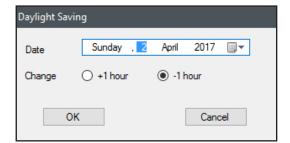
Daylight Sav	ving	
Date	Tuesday ,	November 2016
Change	• +1 hour	🔿 -1 hour
(Ж	Cancel

From here the dates can be entered. Select the date for the clocks to move forward and then press OK. The date should appear in the Daylight Saving window.

Daylight Sa	ving
Date	Sunday , 🔁 October 2016 🗐 🗸
Change	● +1 hour ○ -1 hour
(DK Cancel

Press the "Add" button again to enter the Daylight Saving window once more and enter the date for the clocks to move back an hour and then press OK.

For our example we have selected the dates as shown below.



These dates will then appear as shown in the Daylight Saving window in figure 43. Daylight Saving mode is now active and will take effect at 2am on the specified dates.

NOTE: Newer versions of the PC software now have an "Auto add" function in the Daylight Savings Setup. The software will fill in the dates and times automatically. The daylight saving dates need to be updated every year, even when the "Auto Add" function is used.

We will save the calendar configuration again by navigating to the "File" menu in the top left corner and selecting "Save". The calendar is now complete.

Altronics A45	i10 Setup - F:	*																											-	-		×
File Edit																																
RE		ľ	K		A	45	10	Tim	ner	Pro	ogra	mn	ner																			
Event Groups							Jani	Jary 2	2016					Febr	uarv	2016					Ma	ch 2	016					A	oril 20	16		
Mondays					S	м	т	w	т	F	S	S	М	Т	w	т	F	S	S	м	т	W	т	F	S	S	м	Т	w	т	F	S
PublicHols				- 1							2		1	2	3	4	5	6			1	2	2	4	5	Ŭ					1	2
SchoolHols					3	4	5	6	7	8	9	7	8	9	10	11	12	13	6	7	8	9	10	11	12	3	4	5	6	7	8	9
StandardDay					10	11	12	13	14	15	16	14	15	16	17	18	19	20	13	14	15	16	17	18	19	10	11	12	13	14	15	16
					17	18	19	20	21	22	23	21	22	23	24	25	26	27	20	21	22	23	24	25	26	17	18	19	20	21	22	23
					24	25	26	27	28	29	30	28	29					-	27	28	29	30	31			24	25	26	27	28	29	30
					31				2.0	20			2.0									~~									2.0	
																														_		
							M	ay 20	16					Ju	ne 20)16					Ju	ly 20	16					Aug	just 2	016		
		_			S	М	Т	W	Т	F	S	S	М	Т	W	т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S
Add	Edit	D	elete		1	2	3	4	5	6	7				1	2	3	4						1	2		1	2	3	4	5	e
					8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	1
Events for Mondays	8				15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	- 20
Event	Output	Duration	Time	^	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	2
PrebellMusic	Pre-Bell	04:59	08:25:00		29	30	31					26	27	28	29	30			24	25	26	27	28	29	30	28	29	30	31			
Firstbell	Bell	00:03	08:30:00																31													
Assembly	Bell	00:03	09:30:00		-					0				• •									004					-		0040		
MorningBreak	Bell	00:03	10:30:00				Septe	ember	r 20 I					Octo	ber 2	2016					Nove		2018					Dece		2016		
EndBreak	Bell	00:03	11:00:00		S	М	Т	W	Т	F	S	S	M	Т	W	Т	F	S	S	M	Т	W	Т	F	S	S	M	Т	W	Т	F	S
Lunch	Bell	00:03	13:00:00						1	2	3							1			1	2	3	4	5					1	2	3
EndLunchMus	Music	04:59	13:35:00	~	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10
EndlunghBall	Dall	00.00	12-40-00	+	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17
Add	Edit	D	elete		18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24
					25	- 26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30				25	- 26	27	28	29	30	31
												30	31																			
Daylight Saving							Jan	uary 2	017					Febr	uary :	2017																
Date	+/-				s	м	т	w W	т	F	S	S	м	т	W	T	F	S														
02/04/2017	-1				1	2	3	4	5	6	7	3	TVI		1	2	3	4														
02/10/2016	1				8	9	10	11	12	13	14	5	6	7	8	4	10	11														
					15	16	17	18	19	20	21	12	13	14	15	16	17	18														
								.0	10	20	-	12	- 10																			
Add	Edit		elete		22	23	24	25	26	27	28	19	20	21	22	23	24	25														

Fig 43

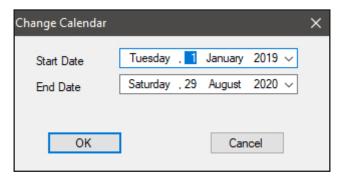
18.0 EDITING THE DATE RANGE

The Start and End dates for the current calendar can be modified by using this function. Navigate to the "Edit" menu in the top left corner and select "Date range" as shown below in figure 44.

File	Edit	Date Range Daylight Saving	,	P #
Event G		Event Group Event	• •	
	_	Defaults		



Once selected, the Change Calendar popup will appear as shown in figure 45. From this screen modify the Start and/or End dates and press OK. The updated calendar should now be loaded.





19.0 BRINGING FORWARD THE DATE

The Start date for the current calendar can be modified by using this function. By using this function new calendars are no longer required each year, as the calendar can be continually moved forward months or even years. Navigate to the "File" menu in the top left corner and select "Bring Forward" as shown below in figure 46.

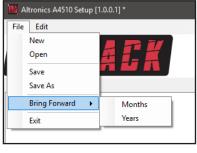


Fig 46

If Months is selected, the Bring Calendar Forward popup will appear as shown in figure 47. From this screen select the number of months to move forward and then press OK. The updated calendar should now be loaded.

Bring Calendar Forward	
Bring Forward 1 Months	
OK Cancel	



The same process is used when bringing forward the Years.

20.0 NOTES
