

VMS WEB STUDIO® User Manual

Version 4.8.0



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Contents

Intr	oducing Bartco VMS Web Studio [®] 3				
1.	Logging In4				
2.	Web St	Web Studio Main Page Orientation			
3.	Assets, Groups and Job Queue			. 6	
	3.1				
			Asset's icon and status icons		
		3.1.2	Filters		
		3.1.3	Quick options menu 1		
	3.2	-			
	3.3	-	ue 1		
4.	Asset I	nformatio	on1	14	
	4.1	Asset St	atus1	15	
	4.2	Radar St	atus 1	16	
	4.3		fo1		
		4.3.1	Change label/name of asset1		
5.	•				
6.		0			
7.	Create Message				
	7.1				
	7.2				
	7.3	Preview		25	
8.	Upload	ing file to	asset	26	
	8.1	Save File	2 2	26	
	8.2	Open Fil	e	27	
	8.3	Upload :	saved file to asset	28	
	8.4	Upload	file without saving	<u>29</u>	
9.	Quick S	peed		30	
10.	Radar.			32	
11.	SMS & Security			36	
12.	Schedu	ler		39	
	12.1	Create S	chedule	39	
	12.2	Schedul	e a radar file	14	
13.	File Ma	nager		45	
	13.1	-	multiple files		
14.	Hire Management				
	14.1	-	ers5		
		14.1.1	Cross Hiring		
		14.1.2	Create Hire Customer	53	



	14.2	Hire Use 14.2.1	rs Create Hire User	
	14.3	Assets		. 57
		14.3.1	Hire Asset to Customer	. 58
	14.4	Notes		. 59
15.	Other S	Settings		. 60
	15.1	Global O 15.1.1	n / Off Times Activate global on/off times	
		15.1.2	Deactivate global on/off times	. 61
	15.2	Time Zoi	ne Settings	. 62
	15.3	Change S	SMS Password	. 63
	15.4	Luminan	ce Settings	. 64
16.	Admini	stration		. 65
	16.1	Users		. 65
		16.1.1	Create User	. 66
		16.1.2	Unlock Account	. 67
		16.1.3	Reset Password	. 68
	16.2	Assets		. 69
		16.2.1	Update Asset Details	. 70
		16.2.2	Upgrade Firmware	. 72
17.	Special	assets		. 74
	17.1	Electron 17.1.1	ic Fire Danger Rating Signs (Fire Signs) Fire sign – 4 ratings	
		17.1.2	Fire sign – retrofitted	. 75
		17.1.3	Upload Fire Rating	. 76
		17.1.4	Asset Status – special fields	. 77
	17.2	VSLS		. 77
		17.2.1	Upload Speed	. 77
		17.2.2	Asset Status – special fields	. 77
	17.3	Traffic Li 17.3.1	ghts Asset Status – special fields	
18.	Trouble	eshooting		. 79



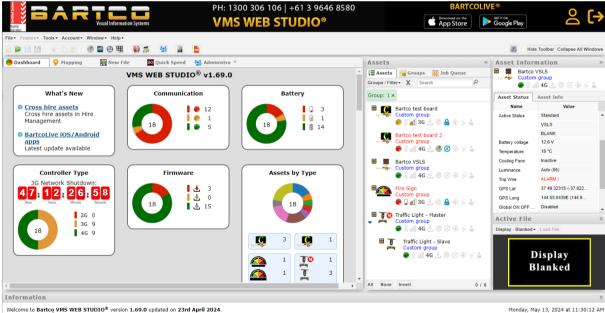
Introducing Bartco VMS Web Studio[®]

BARTCO VMS WEB STUDIO® is a web-based application that runs on BARTCO's secure cloud network for maximum security and high availability. It has been developed to allow customers to interact and provide full management of their BARTCO products, including Variable Message Signs (VMS), Variable Speed Limit Signs (VSLS), Electronic Fire Danger Rating signs, Electronic Snow / Wheel Chain Rating signs and Portable Traffic Signals, etc.

VMS WEB STUDIO® is a real-time internet-based communication facility enabling live communication via cellular or satellite networks from any internet enabled PC, laptop, tablet or mobile, eliminating the need for the installation of local software.

Features include:

- Fully web based allowing remote programming from any internet enabled PC / Laptop / Tablet or mobile.
- Secure login •
- Asset Management and tracking system •
- Create and manage customers (perfect for hire/rental companies) •
- Quick and easy operation •
- Clean user-friendly interface •
- Asset grouping
- Program multiple assets instantly



Welcome to **Bartco VMS WEB STUDIO[®]** version **1.69.0** updated on **23rd April 2024.** VMS WEB STUDIO[®] is the world's leading VMS programming and management interface. Please feal free to tell us about any problems or suggestions by clicking the "Report" button in the top right of this page.

Phone: 1300 306 106 Email: service@bartco.com.au



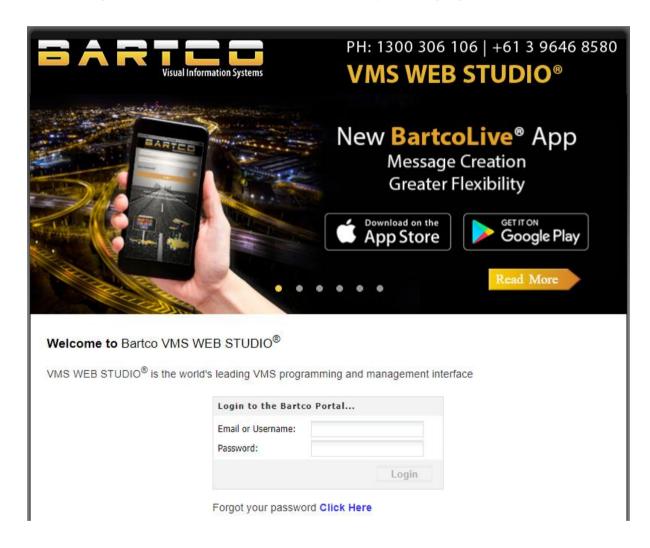
1. Logging In

From the browser address bar go to the VMS Web Studio web page: <u>www.vmsstudio.com</u>

Enter your username and password as received in your email.

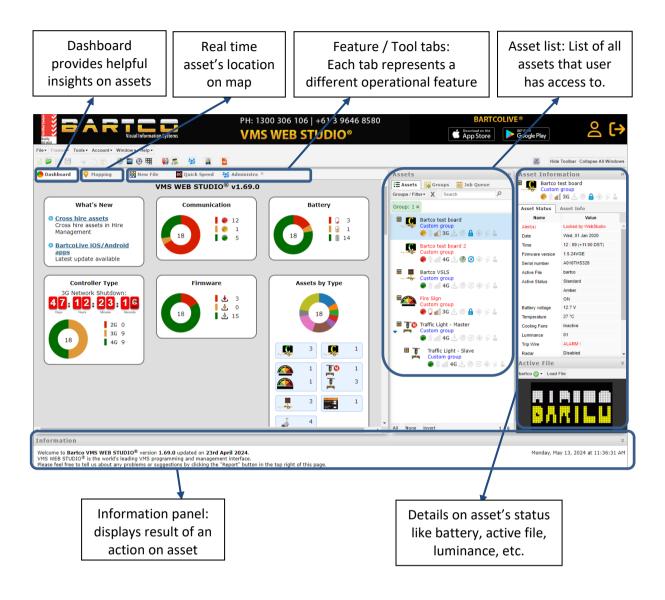
Notes:

- If you have not been allocated a username and password, please contact Bartco to receive a user access form.
- Contact Bartco to delete a user from Web Studio
- Bartco suggests using Google Chrome as the best compatible browser with Web Studio. Google Chrome can be downloaded at the link: <u>http://www.google.com/chrome</u>





2. Web Studio Main Page Orientation

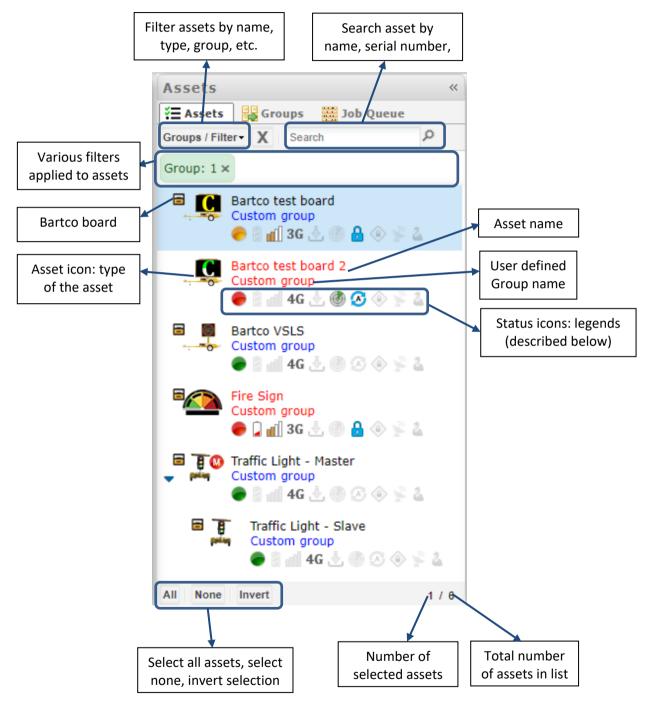




3. Assets, Groups and Job Queue

3.1 Assets

All the assets are displayed in the Assets List.





3.1.1 Asset's icon and status icons

Asset's icon represents type of the asset:



Asset shows several status icons to denote various state of an asset as described below:

	Bartco test board 1 Custom group Custom Group Custom Group Custom Group Custom Group		represents Bartco board
•	Status older than 24 hours Asset has communicated in last 24 hours and has warning Asset has communicated in last 24 hours Asset has no status	○	Locked by Web Studio Automatic programming enabled Automatic programming disabled
	Battery Low (warning) Battery OK Battery Good	(Radar enabled Radar disabled
	Low signal strength (warning) Weak signal strength Strong signal strength		Locked by Road Authority Not locked by Road Authority
··◆] ··•◆] ···◆]	Firmware critically out of date (warning) New firmware available to upgrade Firmware upgrade is in progress Latest firmware installed	₩ 1410 1410	Asset is currently on hire Asset is hired and hire duration is inactive Asset is available to hire No permission to hire asset
2G 3G 4G	2G controller 3G controller 4G controller	>: •	Hired asset access until DD MMM YYYY Upgrade to Web Studio



3.1.2 Filters

Filter assets by Alert, Controller Config, asset type, etc.

Assets		
Assets Groups	Job Queue	
Groups / Filter V Search	Q	
Show All	<u>^</u>	
Assets by Group		
With Selected Assets > Show all ungrouped assets		
User Groups >		
Assets by Alert >	Status older than 24 hours	12
Controller Config >	Asset has communicated in last 24 hours and has warning	g 1
Assets by Type >	Asset has communicated in last 24 hours	4
Assets by Company >	Battery Low	4
Last 24 hours	Battery OK	0
	Low signal strength	0
	Weak signal strength	5
	Firmware critically out of date	0
	Radar Enabled	1
	Automatic programming enabled	0
	Locked by WebStudio	2
	Locked by Roading Authority	0
	Satellite enabled	0
	lacktrian Assets currently on hire	0
	Assets currently on hire and duration is inactive	1
	a No permission to hire asset	0



Controller Config menu shows below options:

Assets		
🕞 Assets 🔡 Groups 🧱	Job Queue	
Groups / Filter - Search	Q	
Show All	A	
Assets by Group		
With Selected Assets >		
Show all ungrouped assets		
User Groups >		
Assets by Alert >		
Controller Config >	Radar not fitted	11
Assets by Type >	Radar fitted	6
Assets by Company >		
Last 24 hours		

Various filters can be applied simultaneously to the assets list.

For example, filter all assets that are currently on hire & and has low battery \Box :





3.1.3 Quick options menu

Right click on selected asset in the Assets list to display quick options menu. Note: this menu changes based on asset's type.

The following is an example of quick options menu on VMS:

Bartco test board Custom group Custom group Custom group Custom group	
Update Status	
Wake Sign Sleep Sign	
Program History	
Tools > Upgrade Firmware	Upgrade Firmware requires user permission

- i. Update status Manually update the status of asset
- ii. Blank sign Blank the display of asset
- iii. Wake sign Start displaying last message on the asset
- iv. Sleep sign Put asset in sleep mode
- v. Program History



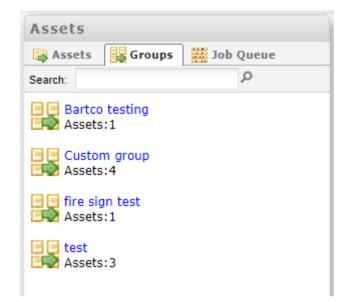
vi. Upgrade Firmware

This option is only available if the user has permission to upgrade firmware on asset Go to <u>16.2.2 Upgrade Firmware</u> section for more information.

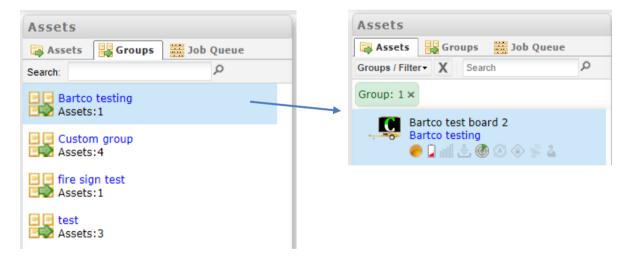


3.2 Groups

Very useful if you have multiple assets in your account. Assets can be grouped by one project, area, or section of roadway using user defined group name.



Selecting a group will list all the assets in that group:





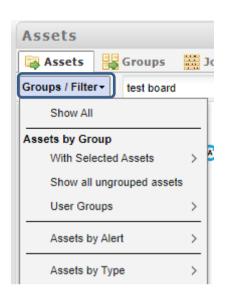
Group an asset using Asset Info:

- i. Select asset from Assets list
- ii. Go to Asset Info
- iii. Update value of the "Group" field

Asset Information			
Bartco test board 2 Bartco testing			
Asset Status Asset Info			
Name	Value		
Company	Bartco		
Asset ID	187371		
Model / Plant type	VMS 400 5 Colour		
Controller Serial	A018THS104		
Trailer VIN	tab		
Trailer Registration	tab		
Trailer Serial			
Special Features			
Firmware Version	1.5.24VHE		
Hardware Version	Issue 8 F		
Label	Bartco test board 2		
SIM PIN			
Client Ref	123		
Trailer Key			
Group	Bartco testing		



- Group an asset using Groups/Filter:
- i. Select asset from Assets list
- ii. Select Groups / Filter -



iii. Select "Move to" or "Move to new Group" option from Selected Assets menu

Assets	Ass
🙀 Assets 🔡 Groups 🧱 Job Queue	
Groups / Filter - test board	· C
Show All	Asse
Assets by Group	
With Selected Assets > Ungroup	
Show all ungrouped assets Move to new G	Group
User Groups > Move to	>
Assets by Alert >	Build
Assets by Type >	Seria
	Activ

3.3 Job Queue

Upload file, updating status, etc. tasks are added in the Job Queue. When the job is completed successfully, it will be removed from the Job Queue. If there is an error in completing the job, then the error is displayed in the Job Queue.





4. Asset Information

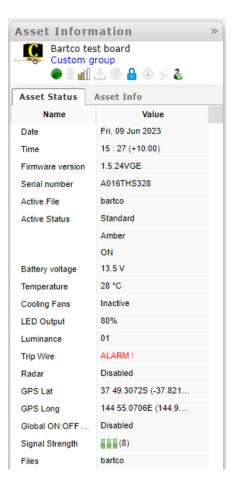
Click on an asset to see its detailed status.

Assets « Asset Information »			
Assets Groups Job Queue	Bartco test board		
Groups / Filter - test board D ×	Custom g	iroup 🛓 🔘 🔒 🛞 📡 🐍	
Restor test heard			
Bartco test board Custom group	Asset Status	Asset Info	
🗢 🖹 💼 🛞 🛞 🔔 👘 🖹	Name	Value	
	Date	Fri, 09 Jun 2023	
	Time	15 : 27 (+10:00)	
	Firmware version	1.5.24VGE	
	Serial number	A016THS328	
	Active File	bartco	
	Active Status	Standard	
		Amber	
		ON	
Asset's last known	Battery voltage	13.5 V	
status, radar status	Temperature	28 °C	
and asset's info	Cooling Fans	Inactive	
	LED Output	80%	
	Luminance	01	
	Trip Wire	ALARM !	
	Radar	Disabled	
	GPS Lat	37 49.3072S (-37.821	
	GPS Long	144 55.0706E (144.9	
	Global ON:OFF	Disabled	
	Signal Strength	(8)	
	Files	bartco	
	Active File		
	bartco ⊘ 🕶 Load F	ile	
Active File: Displays			
last known			
status/message of the			
selected asset.			
All None Invert 1 / 1			



4.1 Asset Status

The fields in the status changes based on the asset type. The below is an example of VMS:



Date	Last date when asset communicated with Web Studio		
Time	Last time when asset communicated with Web Studio		
	(+10:00) shows the timezone of the asset		
	(+11:00 DST) is displayed when Daylight Savings Time is applied		
Firmware version	Firmware version of the asset		
Serial number	Serial number of the asset		
Active File	Asset is currently displaying this file		
Active Status	State of the asset		
Battery voltage	Battery of the asset		
Temperature	Temperature of the controller in centigrade		
Cooling Fans	Cooling fans are active or inactive		
LED Output	Brightness of the display in percentage		
Luminance	Shows level of luminance and Auto or Manual mode		
Trip Wire	Tamper Alarm loop		
	The name of this field can be set using "Input 1 Label" in Asset Info.		
	Default value is "Trip Wire"		
Radar	Radar is enabled/disabled on the asset		
GPS Lat	GPS latitude of the asset		
	If GPS is lost then asset is shown at last known location on Mapping		
	tab and Asset's status icon shows as warning		



GPS Long	GPS longitude of the asset		
	If GPS is lost then asset is shown at last known location on Mapping		
	tab and Asset's status icon shows as warning		
Global ON:OFF Time	Global time to switch the display on/off		
Signal Strength	Signal strength of the asset		
Files	List of files stored on the asset		

4.2 Radar Status

Radar Status is only available when Radar is enabled on an asset

Asset Informa	ation	*			
#Bartco R&D test board [no group] [] III 3G 💩 🚳 🔒 💿 🛸 🕹					
Asset Status Ra	adar Status	Asset Info			
Name	Val	ue			
Radar Options	Detected spee	ed only			
Min Display Speed	20				
Posted Speed Zone	50				
Max Display Speed	20				
(1) Msg Display	Speed				
(1) Msg Display Time	0				
(2) Msg Display	Nothing				
(2) Msg Display Time	0				
Log Options	Disabled				
Log Min Speed	10				
Current Speed	0				
Radar Log Settings	service@barto	co.com.au			

Radar Options	Radar setup to display detected speed only or interrupt displayed
	message
Min Display Speed	Minimum detection / display speed
Posted Speed Zone	Posted Speed Zone
Max Display Speed	Maximum detection / display speed
(1) Msg Display	First message displayed when vehicle is detected
(1) Msg Display Time	Duration (in sections) for which first message is displayed
(2) Msg Display	Second message displayed when vehicle is detected
(2) Msg Display Time	Duration (in sections) for which second message is displayed
Log Options	Logging enabled or disabled
Log Min Speed	Minimum speed for logging
Current Speed	Last speed detected by Radar
Radar Log Settings	List of email addresses to receive radar logs daily



4.3 Asset Info

Asset Inform	nation	*	
Bartco test board Custom group Custom group			
Asset Status	Asset Info		
Name	Value		
Company	Bartco		
Asset ID	174433		
Model / Plant type	VMS 400 Amber		
Label	Bartco test board	ר	
Client Ref	abcd-1	k	
Group	Custom group		
Trailer VIN	TBD		
Trailer Registration	TBD	Val	ue of these
Trailer Serial			are editable
Controller Config		b	y the user
Serial number	A016THS328		
Hardware	Issue 8 F		
Firmware	1.5.24VGE		
Input 1 Label	Trip Wire		
Radar Fitted	NO		
Special Features			
Trailer Key		Y	
SIM PIN			

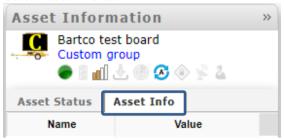
Company	Owner company of the asset
Asset ID	Unique identified of the asset
Model / Plant type	Asset type
Label	Name of the asset (editable by user)
Client Ref	Another name of the asset (editable by user)
Group	Group of the asset (editable by user)
Trailer VIN	VIN number of the asset's trailer
Trailer Registration	Rego number of the asset's trailer
Trailer Serial	Serial number of the asset's trailer
Serial number	Serial number of the asset
Hardware Version	Hardware version of the asset
Firmware Version	Firmware version of the asset
Input 1 Label	Label for Input 1 on the controller (editable by user)
Radar Fitted	Radar is fitted on the asset (editable by user)
Special Features	Any special characteristics of the asset, such as 4G
Trailer Key	Trailer key of the asset (editable by user)
SIM PIN	Sim card PIN number (if applicable)



4.3.1 Change label/name of asset

To change the label/name of an asset:

- i. Select asset from Assets list
- ii. Go to Asset Info tab



iii. Click on the value of Label field



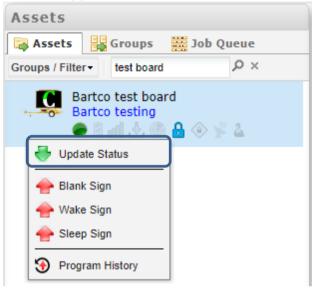
iv. Type new name and press Enter The new name will get updated immediately



5. Update Status

To update the status of an asset:

- i. Select asset(s) from the Assets list
- ii. Right click on selected asset(s)



iii. The user will be prompted as follows:



iv. Click on OK to update status of the selected asset(s). The job will appear in Job Queue. Click on Cancel button to cancel uploading.



On completion, the result will be displayed in the Information panel at the bottom of the page.

Success:

Information

Asset: BARTCO test board (174433) Status updated Failed:

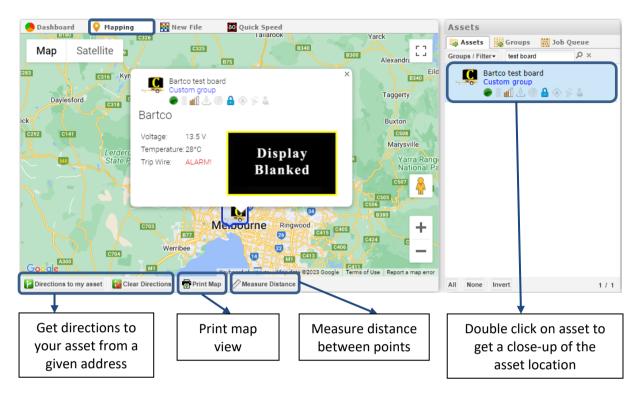
Information

Asset: BARTCO test board (174433) Error: Cannot connect to asset



6. Mapping

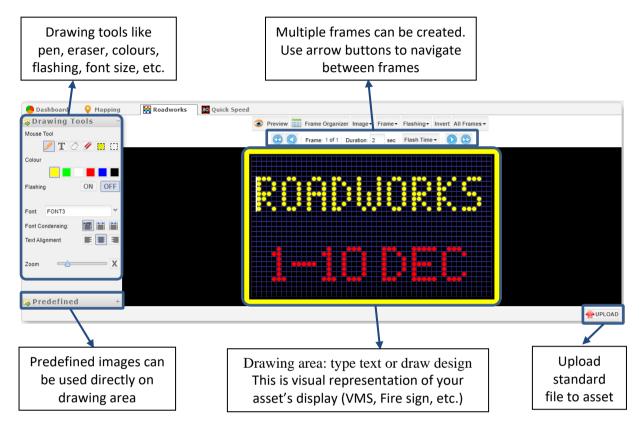
Bartco's assets have inbuilt tracking system. This is used to display location of assets on maps. The location of the asset is the last known location of asset when it communicated with Web Studio.





7. Create Message

Creating a message is undertaken by selecting the "New File" tab from the main navigation page. This tab is also known as Drawing Area which creates Standard file. Once the message is prepared and saved under a name then that name will appear on the tab instead of new file/untitled.



Draw or type your desired message in the drawing area. The drawing area is scaled to be the same size as the asset (VMS, Fire sign, etc.).

The message can be typed in colour by selecting the required colour from the Drawing Tools. Different font sizes and line alignments are also available to choose.

🕞 Dra	wing To	ols –
Mouse 1	Tool	
	/Т 🖉	🥖 🗖 🖸
Colour		
Flashing	3	ON OFF
Font:	FONT3	~
Font Co	ndensing:	
Text Alig	nment	
Zoom		X



Various functions on the frame can be performed using the below menu:

	Preview	Frame Organizer	Image - Frame -	Flashing- Invert	All Frames -	
Preview	Manage frames	Load image	Cut, copy,	Apply or	Invert	Apply
of the	and apply	or save frame	paste, etc.	clear flashing	colours	setting to
file	transitions	as an image	on frames	on frame	on frame	all frames

Multiple frames can be created with different frame time. Use arrow buttons to navigate through the frames.



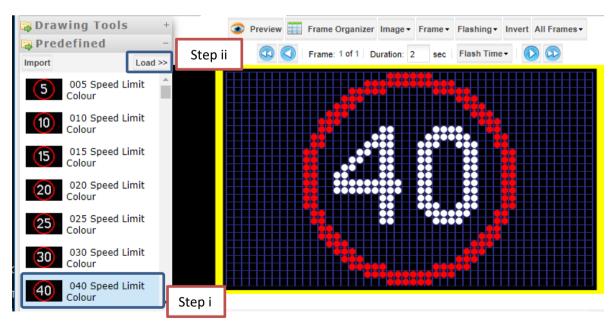
Frame timing can start at 0.1 of a second to create animations. Length of message, asset position and target audience should all be considered when selecting frame times.

7.1 Predefined Images

Several predefined images are available like speeds, land closure, etc. which can be loaded directly onto the frame to prepare a message.

> To load a predefined image:

- i. Select image from the predefined images list
- ii. Click on "Load >>" buttonPredefined image will be loaded in frame on the drawing area





7.2 Message Transitions/Animations

More commonly VMS are being used for advertising and promotions. Web Studio has the ability to create dynamic and animated messages to enhance the appeal of your message.

To create a message transition or animation, simply create your message and then click on the Frame Organizer button from the menu.

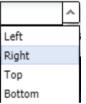
Preview Frame (Organizer Image -	Frame -	Flashing -	Invert	All Frames -	
Frame Organizer						×
🧹 Clear Frame 🛛 🚱 Add Frame	Delete Frame					
Transition: Select Transition Please note: Higher the frame per second, low	✓ Side: Select Si er the speed of the anin		mes per secon			ion.
Fredse note. Higher the traine per second, tour	of the speed of the anim	nation and m		ormanic	s will be in a transit	
		•				
Frame 1	Frame 2	2				
	OK (Enter)	Cancel (ESC	;)			



- > To apply transition/animation to your message:
- i. Click on desired frame to be animated in Frame Organizer
- ii. Select transition/animation from the dropdown

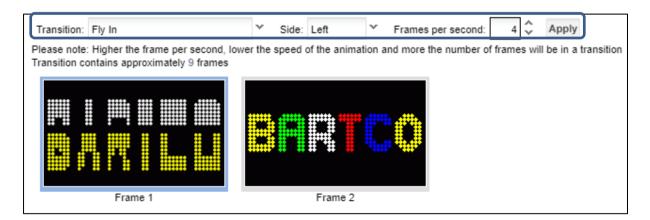
None	^
None	
Wipe In Fly In Split Appear Out -> In Split Appear In -> Out Zoom	
Wipe Out Fly Out Split and Scroll Out	
Scrolling	

iii. Select side



- Set frames per second
 Note: higher the frame per second, lower the speed of the animation and more the number of frames in transition.
- v. Click on Apply button

The selected frame will display the preview of the transition



vi. After finishing applying transitions to desired frames, click on OK to save the changes and close the Frame Organizer



7.3 Preview

Check the preview of the message to see how it will look on the VMS:



Preview of the message:





8. Uploading file to asset

Once the file has been prepared, it can either be saved or directly uploaded to the asset. To use messages in Radar and/or Schedule, it needs to be saved first. The message is saved in the cloud and is accessible to all the users of your company using their Web Studio account.

8.1 Save File

i. Go to File -> Save As



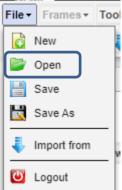
ii. Enter filename and click on Save As button to save the file

🛃 Save As		×
Files		
New F	Folder 🙀 Up One Level	
Group:	ITS_Demo	~
	Testing folder	
	Unsaved_Files	
File Type:	Bartco Files (*.bart2)	~
File Name:	test	
	Save As Cancel	



8.2 Open File

i. Go to File -> Open



ii. Select file from the list and click on Open button

彦 Open		×
Files		
New F	Folder Vp One Level	
Group:	ITS_Demo	~
	Testing folder	^
	Unsaved_Files	
roadworks Ahead	R-ahead	
ROADWORKS 1-10 DEC	Roadworks	+
File Type:	Bartco2 Files (*.bart2)	×
File Name:	Roadworks	
	Open Cancel	



×

8.3 Upload saved file to asset

i. After your file has been saved/opened, select asset(s) from the Asset list that you wish to upload the message to.

Note: Multiple assets can be programmed simultaneously by holding down the shift or Ctrl key on your keyboard when selecting asset(s).

- ii. Click on Upload button https://www.elicable.com The file that is open in the tab will be uploaded to the selected asset.
- iii. The user will be prompted as follows:



iv. Click on YES to upload file to the selected asset(s). The job will appear in Job Queue. Click on NO to cancel uploading.



On completion, the result will be displayed in the Information panel at the bottom of the page.

Success:	Failed:
Information	Information
File: SARILL bartco Asset: BARTCO test board (174433) Job Complete	File: bartco Asset: BARTCO test board (174433) Error: Asset:174433(BARTCO test board) Cannot connect to asset

Note: After you have uploaded your message, the active file will update with your current message and the overall asset status.



8.4 Upload file without saving

Messages can be uploaded without saving them first.

i. After your desired message is prepared, select asset from the Asset list that you wish to upload the message to.

Note: Multiple assets can be programmed simultaneously by holding down the shift or Ctrl key on your keyboard when selecting asset(s).

ii. Click on Upload button

The message will be automatically saved into your __Unsaved_Files folder. Notes:

- Files in this folder can be opened and resaved into another folder.
- Files cannot be manually saved into this folder.
- Files cannot be moved in or out of this folder with the File Manager.
- iii. The user will be prompted as follows to remind that an unsaved file is being uploaded:

🔶 Uplo	ad File(s)				×	
?	Program asset # B/	ARTCO test b	oard			
4	The unsaved file would be automatically saved intoUnsaved_Files folder					
		YES	NO			

iv. Click on YES to upload file to the selected asset(s). The job will appear in Job Queue. Click on NO to cancel uploading.



On completion, the result will be displayed in the Information panel at the bottom of the page.

Success:

Failed:



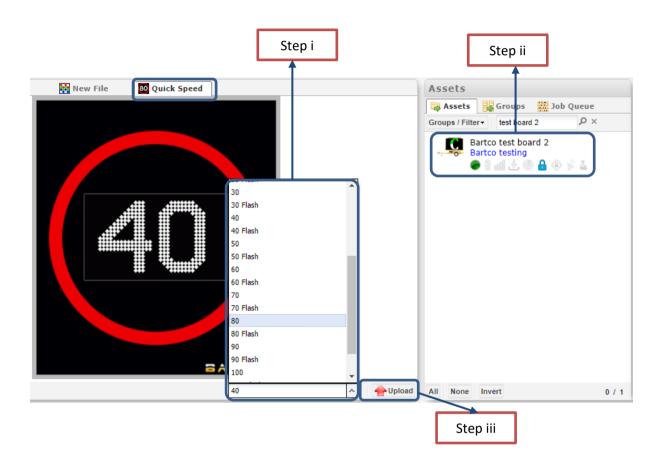
Note: After you have uploaded your message, the active file will update with your current message and the overall asset status.



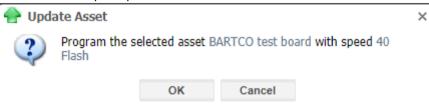
9. Quick Speed

Quick speed is designed to quickly change speed limits on VMS or VSLS assets.

- > To change the speed:
- i. Select speed from the dropdown list
- ii. Select asset(s) from the Assets list
- iii. Click on "Upload" on Quick Speed tab



iv. The user will be prompted as follows:





v. Click on OK to upload speed to the selected asset(s). The job will appear in Job Queue. Click on Cancel button to cancel uploading.



On completion, the result will be displayed in the Information panel at the bottom of the page.





10. Radar

Any Bartco VMS asset can become a speed advisory sign provided the asset is fitted with a Radar.

The Radar can be programmed in two ways depending on the requirement:

- Option 1: Display the detected speed only

The asset typically stays in off mode and starts displaying the speed of the vehicle upon detection then go to sleep again. On top of detecting the speed of the approaching vehicle, the user can also set up an advisory message if the road user is going above the specified speed limit or below the speed limit.

- Option 2: Interrupt displayed message

Instead of going to sleep/off the asset can show a standard message or speed limit message when no vehicle is present. In this instance, the standard message needs to be uploaded to the asset separately to the radar file.

The Radar feature is accessible under the "Tools" menu:



Radar feature will be displayed as follows:

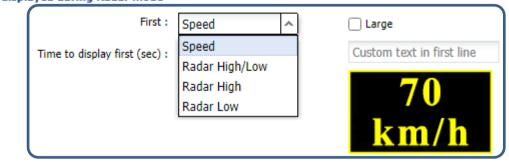
🐣 Dashboard 🛛 🍳 Mapping	New File	80 Quick Speed	🕐 Radar 🛛 ×		
Activate the Radar: ✓ What would you like your asset to ○ Display the detected speed on ⓒ Interrupt displayed message		Option 1			
Message displayed during Radar m	ode	Option 2			
	First : Speed	✓ 🗌 Large			
Time to display first (text in first line 70 m/h	Note: Custom text	is only available in firmware version 1.5.24
Sec	ond : Nothing	×			
Time to display second (Hotming				
Posted Speed Zone (kr	- +				
Minimum detection / display speed (kr					
Maximum detection / display speed (k					
Radar Default File (Scheduler o	nly): Radar Defau	ılt File	Select File		
Data Logging Options					
Enable Lo	gging 🗌				
Minimum logging speed (kn	· ·				
Update Interval (:	sec): 1 🗘				
🙀 Log Settings 😽 Download Radar Logs 🚫 Disable Radar 🔶 UPLOAD					
Setup radar logs to		wnload radar	Dis	able radar	Upload radar
be emailed daily	lo	gs manually	(on asset	config to asset

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Two actions can be executed on the asset after the radar detects approaching vehicle.

The first action on the asset can be set to any of the following: Message displayed during Radar mode



i. Speed

Asset shows the detected vehicle speed only, it can be shown in 2 different formats. Example: speed can be shown as 70 km/h or just 70 (tick Large checkbox for this)

ii. Radar High/Low

In this option the user can upload 2 files (Such as "TOO FAST" for speeding and THANK YOU for doing below the speed limit) that can advise the speeding vehicle that they are doing over the speed limit or doing below the speed limit without showing the vehicle speed.

iii. Radar High

In this option the user can only upload 1 file that can advise the speeding vehicle if the vehicle is approaching above the speed limit to say SLOW DOWN or TOO FAST. If the vehicle is doing below the speed limit, then the asset will not respond to them.

iv. Radar Low

In this option the user can only upload 1 file that can advise the speeding vehicle if the vehicle is approaching below the speed limit to say THANK YOU. If the vehicle is doing above the speed limit, then the asset will not respond to them.

The second action on the asset can be set as follows:

If the first action of the asset is to show the vehicle speed and follow it up with advisory message, then the user needs to select SPEED option in the first option and RADAR HIGH/LOW in second option.

Message displayed during Radar mode				
First :	Speed 👻	Large		
Time to display first (sec) :	2	Custom text in first line	Note: Custom text is only available in firmware version 1.5.	.24
		70 km/h		
Second :	Radar High/Low 🕆	Radar High File: slowdown	Radar Low File: thankyou	
Time to display second (sec) :	2	SLOW DOWN		

Note: The files such as TOO FAST, SLOW DOWN or THANK YOU needs to be prepared first as described in section 7. Create Message and save the files as described in section 8.1 Save File

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The so-called over speed and under speed threshold can be set up at the "Posted Speed Zone" Minimum and maximum detection speed limits can also be setup on the asset to prevent it to be abused.

Note: the asset will not respond if the detected speed of the approaching vehicle is outside of the minimum and maximum detection range. However, the logs will record the speed of every vehicle.

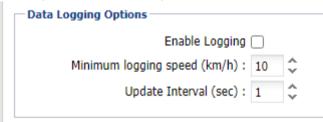
Posted Speed Zone (km/h) :	50	Ŷ
Minimum detection / display speed (km/h) :	20	Ŷ
Maximum detection / display speed (km/h) :	20	Ŷ

The user can also schedule a radar that can turn on/off at certain times of the day. Radar default file can be used if a message needs to be displayed on the asset during the scheduled radar times.

Note: Radar default file will only work if the radar file is scheduled. For example, see section <u>12.2</u> <u>Schedule a radar file</u>.

Radar Default File (Scheduler only) : Radar Default File	
--	--

Enable data logging to record detected speed of the vehicle with a timestamp. Radar logs can be downloaded manually or set up to be emailed daily.





> Upload radar to asset

- Save file if required for later use as described in section <u>8.1 Save File</u>
 Note: Radar files are saved as different file types than standard files. You may wish to have a separate folder for your radar config.
- ii. Select asset(s) in Assets list
- iii. Click on Upload button relation at bottom of the Radar tab Radar config that is open in the Radar tab will be uploaded to the selected asset.
- iv. The user will be prompted as follows:



v. Click on YES to upload file to the selected asset(s). The job will appear in Job Queue. Click on NO to cancel uploading.



On completion, the result will be displayed in the Information panel at the bottom of the page.

с.				
Ju	1U	ce	22	٠

Failed:







11. SMS & Security

Your asset is equipped with security and operational features which means the asset can send an SMS to the operator/s if the unit is tampered with, stolen or if there are any voltage issues.

From the Tools menu select SMS:

File -	Frames - Tools - Ac	count - Window - H	lelp -	
	🖹 🔡 🙆 Radar		(3) H	
	SMS			
The following SMS options can	he set:			
	rious		Set mobile numbe	rs
	ns to be		to which SMS is	
set o	n asset		sent by asset	
😬 Dashboard 🛛 💡 Mapping	New File	80 Quick Speed	🔄 SMS & Secu ×	
Alarms	1			
Select All Select None	Clear All			
Note: Traffic Light controllers only s	upport Under Voltage			
Over Voltage 14.5	Vdc 🗌 Blank	c display		
✓ Under Voltage 11			ber on Traffic Light controllers	
Over Temperature 75		< display		
GPS Movement 500		c display		
	metres 🔄 Blank	. uispidy		
Tamper Enabled				
A Mobile Phone Numbers				
Mobile number:	Phone Number No mobile numbers			
Add Delete			-	
Reporting Interval				
Reporting Interval: 60	✓ minutes			
			-	Upload
		Reporting interval for	Upload config fi	
		alarms	asse	



Select your options as required, following are suggested settings:

- Over voltage: recommended at 14.5 V
- Under voltage: recommended at 11.0 V
- Over Temperature: usually not required
- GPS movement: recommended at 1000 m Note: Ensure that you either upload this option after the asset has been deployed to its desired location or the asset is set to sleep prior to moving.
- Tamper Enabled: Anti tamper wire where it is fitted

After your options are selected, input up to 3 mobile phone numbers that will be alerted if any of the alerts are activated.

 Mobile Phone 	Numbers —	
Mobile number:		Phone Number
		No mobile numbers
Add	Delete	
— 🔺 Reporting Inte	erval	
Reporting Interval:	60	➤ minutes

To remove SMS settings simply uncheck all the boxes and upload file to the asset.

We suggest saving your active and inactive SMS settings in separate folders for consistency and future use.



> Upload SMS config to asset

- Save file if required for later use as described in section <u>8.1 Save File</u>
 Note: SMS files are saved as different file types than standard files. You may wish to have a separate folder for your SMS config.
- ii. Select asset(s) in Assets list
- iii. Click on Upload button et upload at bottom of the SMS & Security tab SMS config that is open in the SMS & Security tab will be uploaded to the selected asset.
- iv. The user will be prompted as follows:



v. Click on YES to upload file to the selected asset(s). The job will appear in Job Queue. Click on NO to cancel uploading.



On completion, the result will be displayed in the Information panel at the bottom of the page.

Success:	Failed:
Information	Information
File: 💷 sms1	⚠ File: 🔜 sms1
Asset: BARTCO test board (174433) Job Complete	Asset: BARTCO test board (174433) Error: Asset:174433(BARTCO test board) Cannot connect to asse



12. Scheduler

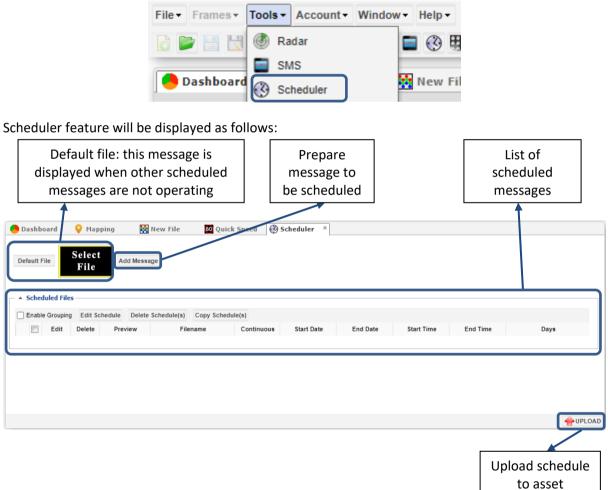
Your VMS comes standard with a GPS module which allows the VMS to keep time as well as the ability to schedule messages as required, instead of uploading messages each time.

Perfect for Roadworks applications where there may be a pre-warning message, and a message to be displayed once the Roadworks begin.

12.1 Create Schedule

To Schedule a file, the desired messages need to be created first as described in section <u>7. Create</u> <u>Message</u> and save those messages as described in section <u>8.1 Save Message</u>

The Scheduler feature is accessible under the "Tools" menu:



Default file: the default file is displayed when the other scheduled messages are not operating. If no default message is selected, then the asset will be blanked when the other scheduled messages are not operating.



- > Select a default file:
- i. Click on Default File button
- ii. Select a file from File Dialog and click Open

📄 Open		×
Files		
New F	older 🙀 Up One Level	
Group:	ITS_Demo	~
	Testing folder	*
	Unsaved_Files	
roadworks Ahead	R-ahead	
ROADWORKS 1-10 DEC	Roadworks	Ŧ
File Type:	Bartco Files (*.bart2)	~
File Name:	Roadworks	
	Open Cancel	

iii. Default file will be selected, and its preview displayed as below:





- Schedule a message:
- i. Click on "Add Message" button

	File :	Select File		Filename:	
					lect ile
Start (Date : 0	5/07/2021			
End (Date : 0	5/07/2021			
Start 1	Fime : 0	0:00	\odot		
End 1	Fime : 0	0:00	\odot		
Continu	uous :	Runs schedu	iled message	continuously	without interruption
[Days : 🗸	Monday			
		Tuesday			
		Wednesday			
		Thursday			
		Thursday Friday			
		Friday			
Ins		Friday Saturday	Close		
Ins		Friday Saturday Sunday	Close		
nsert:		Friday Saturday Sunday Reset	Close reset all		Close: close this
\sum		Friday Saturday Sunday Reset Reset:			Close: close this configuration

ii. Click on "Select File" button

iii. Select a file from File Dialog and click Open

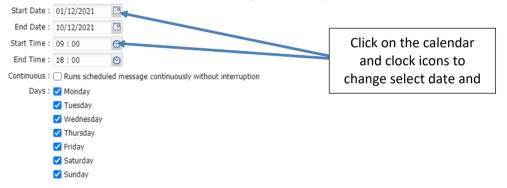
📂 Open		×
Files		
New F	Folder Vp One Level	
Group:	ITS_Demo	~
	Testing folder	•
	Unsaved_Files	
ROADWORKS AHEAD	R-ahead	
ROADWORKS 1-10 DEC	Roadworks	•
File Type:	All Bartco2 and Radar Files (*.bart2, *.brad)	~
File Name:	R-ahead	
	Open Cancel	



iv. A file will be selected, and its preview displayed as below.Other options will now be enabled

Schedule Co	onfiguration	
File :	Select File	Filename: R-ahead
		ROADWORKS
		AHEAD 🕞 🕞
Start Date :	05/07/2021	
End Date :	05/07/2021	
Start Time :	00:00	9
End Time :	00:00	9
Continuous :	🗌 Runs schedul	ed message continuously without interruption
Days :	🗹 Monday	
	🗹 Tuesday	
	🗹 Wednesday	
	🗹 Thursday	
	🗹 Friday	
	🗹 Saturday	
	🗹 Sunday	
Insert	Reset	Close

v. Set date and time for the selected message to run as part of schedule



vi. Click on "Insert" button to add this message to the list

 Scheduled Files 									
Enable Grouping	Edit Schedule	Delete Schedule(s)	Copy Schedule	(s)					
Edit	Delete Pr	eview File	ename	Continuous	Start Date	End Date	Start Time	End Time	Days
1 🔲 🥜		DWORKS R-ahead		NO	01/12/2021	10/12/2021	09:00	18 : 00	All

The message R-ahead will now run from 01/12/2021 to 10/12/2021 from 9am to 6pm every day. Outside these times, the default message will be displayed.

Note: If the Continuous box is checked then the message will run from 9am on 01/12/2021 until 6pm on 10/12/2021 as a continuously running message.

If you would like any other messages to be scheduled simply repeat the process above.



Upload schedule to asset

- Save file if required for later use as described in section <u>8.1 Save File</u> Note: Scheduled files are saved as different file types than standard files. You may wish to have a separate folder for your schedules.
- ii. Select asset(s) in Assets list
- iii. Click on Upload button represented by at bottom of the Scheduler tab Schedule that is open in the Scheduler tab will be uploaded to the selected asset.
- iv. The user will be prompted as follows:



v. Click on YES to upload file to the selected asset(s). The job will appear in Job Queue. Click on NO to cancel uploading.



On completion, the result will be displayed in the Information panel at the bottom of the page.



Failed:



Information A File: schedule1 Asset: BARTCO test board (174433) Error: Asset:174433(BARTCO test board) Cannot connect to asset

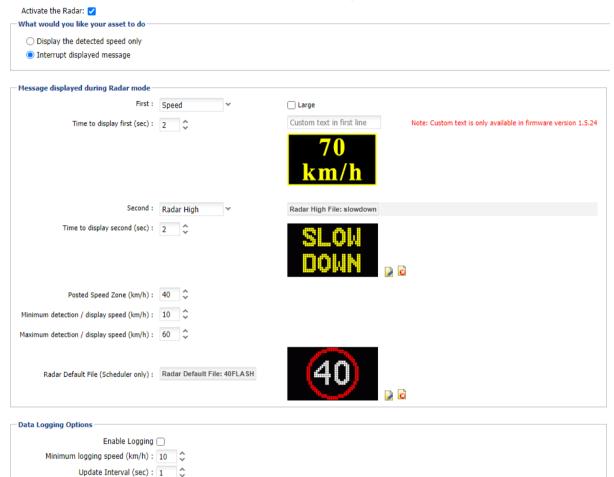


12.2 Schedule a radar file

Example of scheduling a radar file:

A VMS asset is placed in school zone that normally shows the speed limit 60 and changes the speed limit to 40 between 8:00am to 9:30am with radar that shows "SLOW DOWN" if the vehicle goes over the speed limit of 40.

In this case the radar file will be created with the following:



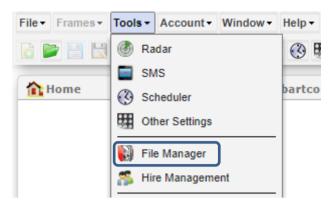
Once the radar file is ready then the schedule will be prepared with the current radar file between 8:00am to 9:30am with a default file that shows the speed limit 60.

Home	🚰 Mapping	40FLASH	80 Quick Speed	谢 Radar -	40km × 🔇 * 5	cheduler ×		
Default File: 60F	ASH 6	Add Mes	sage					
▲ Scheduled I	iles							
Scheduled F Enable Group		Delete Schedule(s) Copy Sc	hedule(s)					
_	ing Edit Schedule I		hedule(s) Continuous	Start Date	End Date	Start Time	End Time	Days

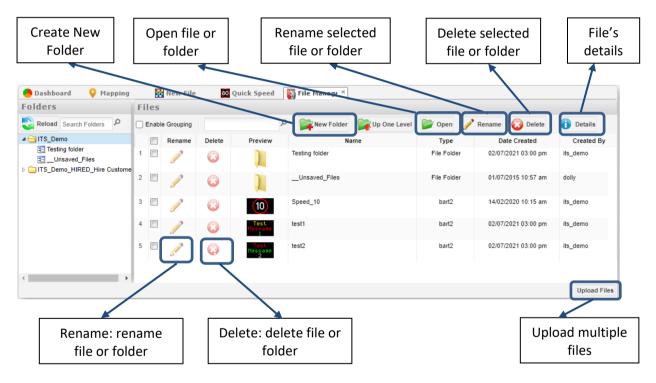


13. File Manager

Multiple messages or options to your asset can be uploaded directly from File Manager



File Manager displays list of files and folders.





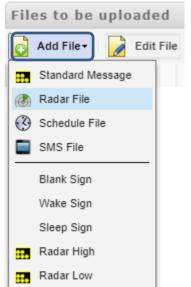
13.1 Upload multiple files

i. Click on Upload Files

The following dialog will be displayed:

🔶 Upload File(s)						×
Files to be uplo	aded					
👌 Add File 🖌 🍃	Edit File 🔂 🛙	Delete File	Delete All Files	Move up	Move down	
Preview		File		File	Туре	
		Upload	Cancel			

ii. Click on Add File and select type of file (Standard, Radar, etc.) or function (Blank sign, etc.)





iii. For type of file, select file(s) from file dialog Select a file and click on "Select File" button

📂 Select F	ile	×
Files		
New New	Folder 🙀 Up One Level	
Group:	ITS_Demo	~
	Testing folder	^
	Unsaved_Files	L
(10)	Speed_10	I.
Test Message 1	test1	Ŧ
File Type:	Bartco Files (*.bart2)	~
File Name:		
	Seloct File Cancel	

iv. Once all the files have been listed, select asset(s) in Assets list and click on "Upload" button

Add F	ile• 📝	Edit File	0	Delete File		Delete	All Files	Move up	Move down
	Preview			F	ile			File	Туре
	Hessage	1	est1				Sta	ndard Message	
	Test Hessage	1	est2				Sta	ndard Message	
					_				
				Uploa	ıd	Cano	cel		
user	will be p	rompte	ed as			Cano	cel		
	will be p ad File(:	-	ed as			Cano	cel		×
	ad File(5)		follows	:			; ected 2 files	

٧.



vi. Click on YES to upload files to the selected asset(s). The job will appear in Job Queue. Click on NO to cancel uploading.



On completion, the result will be displayed in the Information panel at the bottom of the page.

Success:	Failed:
Information	Information
File: Multiple files (Nessage test1, Nessage 2 Asset: BARTCO test board (174433) Job Complete	▲ File: Multiple files (

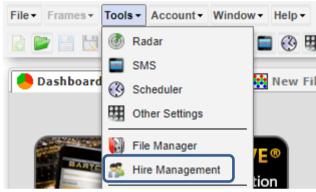


14. Hire Management

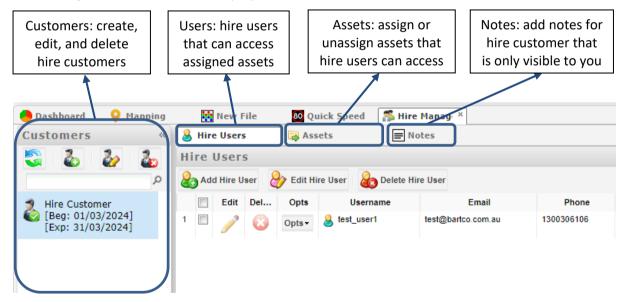
A significant feature of Bartco's Web Studio is for hire companies or other general users to be able to provide their own customer or user with a login and access to asset(s).

Customers can be given access to the system for a determined period, relative to their hire period. Once the customer has finished their hire, they do not have access to the asset again. The hire user uses their username and password to login to Web Studio.

The Hire Management feature is accessible under the "Tools" menu:



Hire Management feature will be displayed as follows:





14.1 Customers

Shows list of all hire customers. The hired assets and hire users' account are only accessible during valid hire duration (begin and expiry dates).





14.1.1 Cross Hiring

Cross hire assets to other companies who already have VMS Web Studio account. No need to create hire users for such customers.

14.1.1.1 Permission to hire assets

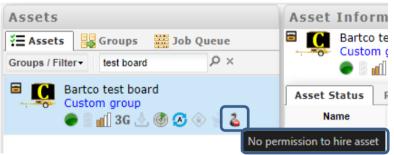
You can allow or prevent other company to hire your assets:

- Tick "Allow Hiring Assets" checkbox to allow customer to hire your assets to others
- Untick "Allow Hiring Assets" checkbox to prevent customer from hiring your assets to others

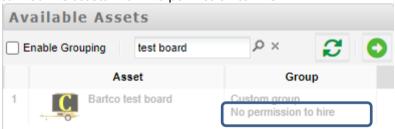
Add new customer		×
Cross Hiring		
Cross Hiring 🕐:	✓	
Unique Code 🕐:	companycode	
Allow Hiring Assets ?:		

Cross hired assets with no permission to hire asset is shown as below:

• Asset's status icon:



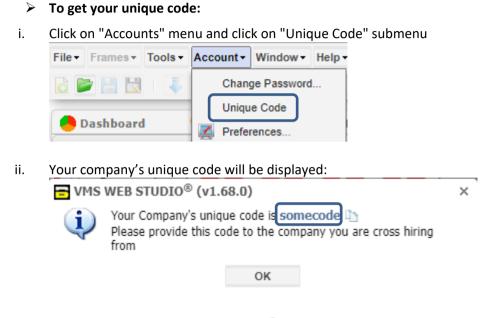
 Hire Management - Available Assets: Cannot hire assets with "No permission to hire"





14.1.1.2 Cross hire assets from another company

To cross hire assets from another company provide them with your company's unique code.



- iii. Copy the unique code by clicking on 🛅 button
- iv. Securely send the unique code to the company you are hiring assets from



14.1.2 Create Hire Customer

i. Select Add Customer



ii. Add hire customer form will be displayed:

mer		×
,		
?:		
ie:		
	09/04/2024	
	09/04/2024	
ОК	Cancel (ESC)	
	mer ⑦: Ie: ОК	(?):

- iii. Cross hire assets Skip this step if not cross hiring assets
 - a. Tick "Cross Hiring" checkbox

Add new customer	×
Cross Hiring	
Cross Hiring ⑦:	
Unique Code 🗇:	
Allow Hiring Assets ⑦:	

b. The unique code of company you are cross hiring assets to

A	dd new customer		×
Г	Cross Hiring		
	Cross Hiring ⑦:		
	Unique Code 🕐:	companycode	
	Allow Hiring Assets ⑦:		

c. Allow customer to hire your assets to other users YES: tick checkbox



NO	untick	checkbox	,
NU.	UTTUCK	LIELKDU	٢

Add new customer		×
Cross Hiring		
Cross Hiring 🕐:	 ✓ 	
Unique Code 🕐:	companycode	
Allow Hiring Assets ⑦:		

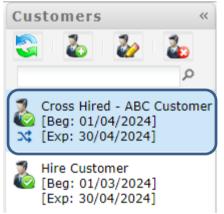
iv. Add name of the hire customer

Customer Name:	Cross Hired - ABC Cu	istome
Begin date:	01/04/2024	
Expiry date:	30/04/2024	

v. Add begin date and expiry date

Customer Name:	Cross Hired - ABC Custo	me
Begin date:	01/04/2024	•
Expiry date:	30/04/2024	

- vi. Click OK
- vii. New hire customer will be added in the list of Customers:



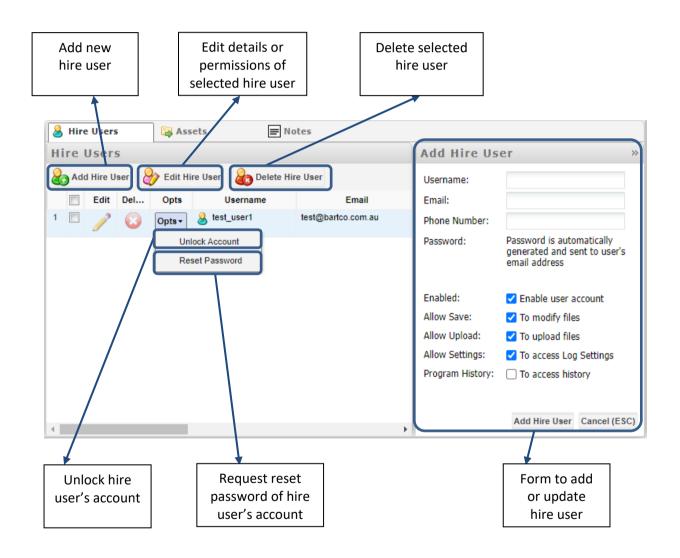


14.2 Hire Users

After the hire customer has been added, create new hire user(s) to the hire customer. Skip this step when cross hiring assets.

Note: For security purposes it is a good idea for each user to have their own username and password.

The hire user will be responsible for what is displayed on the asset under their login. Hire users can only access their account during valid hire duration - begin and expiry dates of Customer.





14.2.1 Create Hire User

i.

- Click Add Hire User Hire Users Add Hire User Add Hire User
- ii. Enter username, email and phone number in the hire user form along with appropriate permissions.

Add Hire Us	er	*		
Username:	hireuser			
Email:	email@bartco.com.au			
Phone Number:	+61111222333			
Password:	Password is automatically generated and sent to user's email address			
				Create and modify files
Enabled:	🗹 Enable user account			
Allow Save:	🗹 To modify files	Y		Upload files and settings to assets
Allow Upload:	🗹 To upload files]-		
Allow Settings:	🗹 To access Log Settings	<u>]</u> -		Allow hire user to access
Program History:	To access history		1	Log Settings
	Add Hire User Cancel (ES	C)		Allow hire user to access Program History of asset

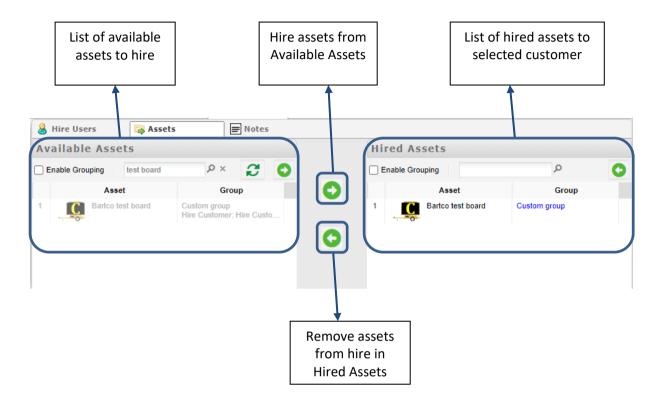
- iii. Click Add Hire User
- iv. The new hire user will be added in the Hire Users list

Add	Hire U	ser	> Edit Hi	re User 🛛 🔒 Delete Hir	re User			
	Edit	Del	Opts	Username	Email	Phone	Enabled	Allow Save
1	<i>_</i>	8	Opts -	A hireuser	email@bartco.com.au	+61111222333	YES	YES



14.3 Assets

Hire assets to selected hire customer. The hired assets are only accessible by the users of selected hire customer during valid hire duration.

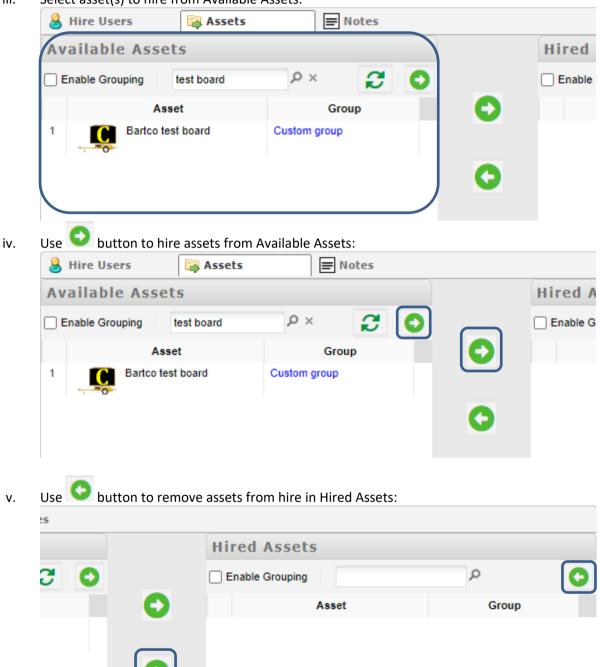




14.3.1 Hire Asset to Customer

- i. Select Hire Customer from the list
- ii. Go to Assets tab

iii. Select asset(s) to hire from Available Assets:

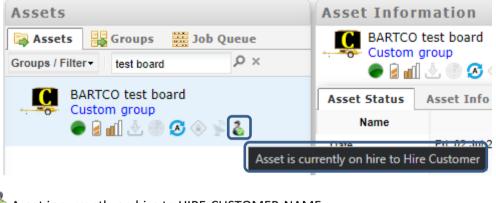




vi. Asset gets listed in Hired Assets to indicate the hire customer has access to it:



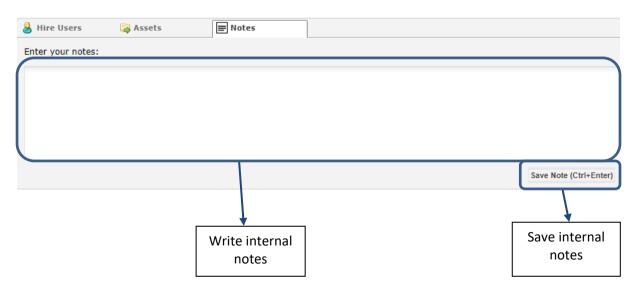
vii. When the asset is on hire, it will be displayed on the Asset's status icons:



- Section 2 Asset is currently on hire to HIRE-CUSTOMER-NAME
- Asset is hired to HIRE-CUSTOMER-NAME and hire duration is inactive
- Asset is available to hire
- 🕹 No permission to hire asset

14.4 Notes

Save notes for each hire customer. These notes are only visible to users of your company.





15. Other Settings

Other Settings contains various special settings for assets.

	_			
The Other Setting	s feature	is accessible	under the	"Tools" menu
The other setting	Jiculuic		under the	TOOLS INCHA.



Other Settings feature will be displayed as follows:

😓 Dashboard 🛛 🍳 Mapping	🙀 Untitled	Other Settings ×	
A Global On / Off Times			
Activate On/Off Times : On Time : 00 : 00 Off Time : 00 : 00	×		Set Global on/off times on asset
合 Upload Reset			
Time Zone Settings			
State/Country Presets : VIC	V	,	
Time Zone : + 10	✓ hours 00 ✓ min	IS	
Daylight Savings :		3	Set time zone on asset
Start Date : 01/10/2023			
End Date : 07/04/2024		9	
Heset Reset			
A Change SMS Password			
Old Password : 123456			Change
New Password :			 password for SMS commands
			on asset
🔶 Upload Reset			
▲ Luminance Settings			Set luminance
Luminance : Auto			settings on asset
🔶 Upload Reset			



15.1 Global On / Off Times

Global on/off times on an asset when enabled displays message only between on and off times. The display would remain off during all other times.

15.1.1 Activate global on/off times

- i. Tick "Active On/Off Times" checkbox to enable global on/off times
- ii. Select On time
- iii. Select Off time
- iv. Select asset(s) from Assets list
- v. Click Upload to upload settings to asset(s)

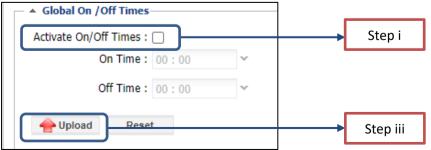
A Global On /Off Times	Step i
Activate On/Off Times : 🗹	
On Time : 08 : 00 🗸	Step ii
Off Time: 17:00 ¥	Step iii
← Upload Resot	
	Step v

vi. Asset's status shows new global on/off times:



15.1.2 Deactivate global on/off times

- i. Untick "Active On/Off Times" checkbox to disable global on/off times
- ii. Select asset(s) from Assets list
- iii. Click Upload to upload settings to asset(s)





v. Asset's status shows global on/off times as disabled:



15.2 Time Zone Settings

Set time zone on an asset to run schedule and record radar logs in local time. Select from Australian state or countries to prefill time zone and daylight savings date (if applicable).

▲ Time Zone Settings	
State/Country Presets : VIC	r
Time Zone : + 10 v hours 00 v min	s
Daylight Savings :	
Start Date : 01/10/2023	3
End Date : 07/04/2024	3
e Upload Reset	

> To set time zone on asset:

State/Country

i. Select from Australian state or country

Presets :	VIC	^
	Australia	
	ACT	
	NSW	
	NSW, Broken Hill	
	NT	
	QLD	
	SA	
	TAS	
	VIC	
	WA	
	New Zealand	
	ик	
	France	*

- ii. Change time zone and daylight savings only if required
- iii. Select asset(s) from Assets list
- iv. Click Upload to upload settings to asset(s)



v. Asset's status shows new time zone

Asset Status	Asset Info
Name	Value
Date	Fri, 09 Jun 2023
Time	15 : 27 (+10:00)
Firmware version	1.5.24VGE
Serial number	A016THS328

15.3 Change SMS Password

Sending SMS commands requires password. Use this setting to change password for SMS commands on asset.

Note: this feature is only available on request

▲ Change SMS Password
Old Password : 123456
New Password :
合 Upload Reset

- > To change SMS password:
- i. Set Old Password and New Password
- ii. Select asset(s) from Assets list
- iii. Click Upload to upload settings to asset(s)

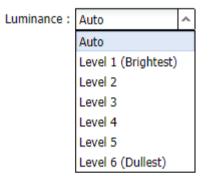


15.4 Luminance Settings

Set luminance/brightness on asset to automatic mode or manual mode.

Luminance Settings						
Luminance		~				
🔶 Upload		Reset				

- > To set luminance on asset:
- i. Select luminance from dropdown
 - Use Auto for automatic mode
 - Use Level 1 to 6 for manual mode



- ii. Select asset(s) from Assets list
- iii. Click Upload to upload settings to asset(s)

4%

Auto (06)

Disabled

iv. Asset's status shows new Luminance

Automatic mode:

LED Output

Luminance Radar

Manual mode at level 1:	Manua	l mode	at	level 1:
-------------------------	-------	--------	----	----------

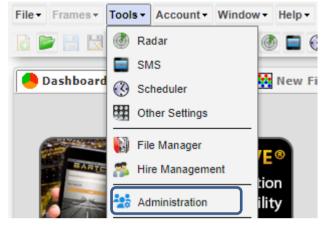
LED Output	6%
Luminance	01
Radar	Disabled



16. Administration

This tab is only available if user has permission to access it.

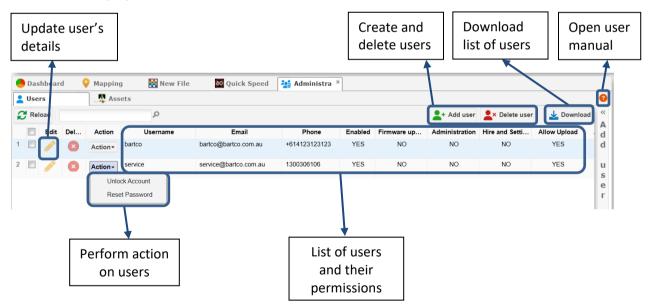
The Administration feature is accessible under the "Tools" menu:



16.1 Users

Manage existing users or create new users using this tab. Note: For security purposes it is a good idea for each user to have their own user account.

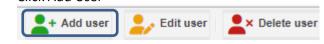
Users will be displayed as follows:





16.1.1 Create User

v. Click Add User



vi. Enter username, email and phone number in the user form along with appropriate permissions.

ermissions.			
Add user		>>	
Username:	testuser		
Email:	email@bartco.com.au		
Phone Number:	+61111222333		
Password:	Password is automatically generated and sent to user's email address		
Enabled:	Enable user account		
Features Administration			Access Administration feature
Hire and Settin	Administration tab		L
	Management and Log Settings		Access Hire Management and Log Settings features
Special Permi	ssions		
Firmware upgr	ade: remotely upgrade firmware on assets		Upgrade firmware to latest version on asset
Allow Upload:	✓ upload files and settings to assets		Upload files and settings to assets
Allow Save:	create and modify		
	files		Create and modify files
	Add user Cancel (E	SC)	

vii. Click Add user

viii. The new user will be added in the Users list

	Edit	Del	Action	Username	Email	Phone	Enabled	Administration	Hire and Setti
1		×	Action -	bartco	bartco@bartco.com.au	+61412123123	YES	YES	YES
2		×	Action -	service	service@bartco.com.au	22	YES	NO	NO
3		×	Action -	testuser	email@bartco.com.au	+61111222333	YES	NO	YES



16.1.2 Unlock Account

User account gets locked temporarily due to incorrect login attempts. Users with Administration tab can unlock those temporarily locked user accounts.

-	Use	rs				
£	🕇 Rel	oad			Q	
		Edit	Del	Action	Username	Email
1	V		8	Action -	bartco	bartco@bartco.com.au
2			×	Action -	service	service@bartco.com.au
					•	
				Use	er account locked	

> To unlock user account:

i. Click Action -> Unlock Account



ii. The user will be prompted as follows:



iii. Result will be displayed as follows:



iv. "service" user account has been unlocked and the user will then be able to login again



16.1.3 Reset Password

Reset user's password – same as "Forgot your password" on login page

> To reset password:

i. Click Action -> Reset Password

Action -	
Unlock Account	
Res	et Password

ii. The user will be prompted as follows:



iii. Result will be displayed as follows:

	1 7					
T VMS	VMS WEB STUDIO [®] (v1.67.0)					
į	An email has been sent to the user or reset their password.	on service@b	artco.com.au with instructions on how to			
		ОК				



16.2 Assets

Assets tab lists all your assets in easily accessible table format. Get an overview of 3G/4G assets and manage various fields of an asset.

Assets will be displayed as follows:

	ate asset mation								nload of assets
Dashboard Users Reloa	Mapping	New F	ile 80 (Quick Speed 🥻 🍇 Admin	nistra ×				Download
Eat	Company	Asset ID	Asset Type	Label 🛋	Client Ref	Web Studio	Controller Serial	Firmware	Modem Gen
	Bartco	174433	C	Bartco VMS	abcd12	Enabled	A016THS328	1.5.24VGE 📥	3G 🛕
1	Bartco	184011		Fire Sign		Enabled	A017THS352	1.5.24FCE 🕹	3G 🛕
	Bartco	215058		VSLS	ABC	Enabled	A022THS342	2.1.01WHE	4G
1	Bartco	191301	B	Traffic Light - Master	TLC - Daniel 2	Upgrade 🔥	A008TLC418	1.0.02TAS900	
1	Bartco	211948	B	Traffic Light - Slave	TLC - Max 1	Upgrade 🔥	A022TLC068	1.0.02TAS900	
						f asset nporta and ale	nt		



16.2.1 Update Asset Details

- i. Select an asset from Assets grid
- ii. Double click on selected asset or click Edit asset button



iii. Update asset's Label, Client Reference and Radar Fitted fields

Update Asse	t	*
Asset ID:	174433	
Controller Serial:	A016THS328	
Label: Client Ref:	Bartco test board Test	
Radar Fitted:	Radar fitted on the asset Dydate Asset	
Company ⑦: Asset Type ⑦:	Bartco VMS 400 Amber	
Trailer VIN 🕝:	TBD-rd-vin	
Trailer Rego 🕝:	TBD-rd-rego	
Modem Gen:	3G 🛕	
Web Studio:	Enabled	
	📌 Request Chang	je
Firmware: Note: New firmw	1.5.24VGE 💑 vare available to upgrade	
	Upgrade Firmwai	re
Hire Info:	Available	
	C	ancel



iv. Request Bartco's service team to update Company, Asset Type, VIN, Registration, Modem Gen and Web Studio fields of an asset

Update Asset	*	
Asset ID: 174433 Controller Serial: A016THS328		
Label: Bartco test board Client Ref: Test Radar Fitted: Radar fitted on the asset		
Company ⑦: Bartco Asset Type ⑦: ✓ Trailer VIN ⑦: TBD-rd-vin Trailer Rego ⑦: TBD-rd-rego Modem Gen: 3G ▲ Web Studio: Enabled		Request Bartco's service team t update information of an asset
Firmware: 1.5.24VGE & Note: New firmware available to upgrade		
Hire Info: Available		
Car	incel	



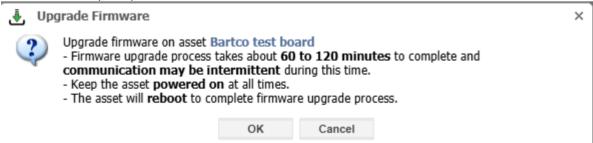
16.2.2 Upgrade Firmware

"Upgrade Firmware" button is only available when new firmware is available to upgrade

	 Firmware critically out of date (warning) New firmware available to upgrade Firmware upgrade is in progress Latest firmware installed 	
Modem Gen: Web Studio:	3G ▲ Enabled ★ Request Change	
Firmware: Note: New firm	1.5.24VGE vare available to upgrade Upgrade Firmware	
Hire Info:	Available	

To upgrade firmware on asset:

- i. Click on Upgrade Firmware in Administration Assets tab or right click on the asset in Assets list
- ii. The user will be prompted as follows:



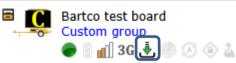
iii. Click on OK to start firmware upgrade process on the selected asset(s). The job will appear in Job Queue.

Click on Cancel button to cancel firmware upgrade.





iv. The asset's status icon will change to 🕹



v. Firmware upgrade takes about 60 to 120 minutes to complete. On completion, the result will be displayed in the Information panel at the bottom of the page.

Success:

Information

Failed:

Information

Asset: Bartco test board (174433) Firmware upgrade completed

Asset: Bartco test board (174433) Error: Firmware upgrade failed



17. Special assets

17.1 Electronic Fire Danger Rating Signs (Fire Signs)

Bartco's Electronic Fire Danger Rating signs (fire signs) are programmed with a fire rating and corresponding message as below:

Fire Rating	Message
No Rating	NO RATING
Moderate	PLAN AND PREPARE
High	BE READY TO ACT
Extreme	TAKE ACTION NOW
Catastrophic	LEAVE BUSHFIRE AREA

17.1.1 Fire sign – 4 ratings

The following table shows fire rating with its message on the new 4 ratings fire sign:

Fire Rating	Message (frame 1)
	(00-00-0000 replaced with date dd-mm-yyyy)
No Rating	NO RHTING 00-00-0000
Moderate	PLAN & PREPARE 00-00-0000
High	BE READY TO ACT 00-00-0000
Extreme	THKE HCTION NOW
Catastrophic	LEAVE BUSHFIRE AREA



17.1.2 Fire sign – retrofitted

The following table shows fire rating with its message on retrofitted fire sign:

Fire Rating	Message (frame 1)	Message (frame 2)
No Rating		
Moderate		
High		
Extreme		
Catastrophic		RUSHFIKE AKEN



17.1.3 Upload Fire Rating

To upload fire rating on an asset:

- i. Select asset(s) from the Assets list
- ii. Right click on selected asset(s) Select a rating from the menu "Upload Fire Rating"



iii. The user will be prompted as follows:



iv. Click on OK to upload fire rating on the selected asset(s). The job will appear in Job Queue. Click on Cancel button to cancel uploading.



On completion, the result will be displayed in the Information panel at the bottom of the page.

Success:	Failed:		
Information	Information		
 Rating: Extreme Asset: Fire sign 4 ratings (192001) Job Complete 	Asset: Fire sign 4 ratings (192001) Error: Cannot connect to asset		



17.1.4 Asset Status – special fields

Special fields in Asset's status:

FDR	Fire Danger Rating being displayed on the fire sign:
	- No Rating
	- Moderate
	- High
	- Extreme
	- Catastrophic

17.2 VSLS

17.2.1 Upload Speed

Use <u>Quick Speed</u> to upload speed to a VSLS

17.2.2 Asset Status – special fields

Special fields in Asset's status:

Annulus Flashing	Annulus Flashing state of VSLS	
	- Synchronized	
	- Unsynchronized	
	 Unknown (unsupported firmware version) 	



17.3 Traffic Lights

17.3.1 Asset Status – special fields

Special fields in Asset's status:

Control Type	Control type selected:		
control type	- One Way Mode		
	- Two Way Mode		
Operation Mode	Operation mode selected:		
	- POWER OFF		
	- AUTO		
	- MANUAL		
	- SENSOR		
	- FLASH YELLOW		
	- FLASH YELLOW ON FAULTY		
	- MAINTENANCE		
Fault	Fault reported		
Is Master	YES if this Traffic Light is a master otherwise NO		
Radio Network	Radio network		

Special fields in Asset's status for Master only:

Remote Controllers	List of Radio Remote controllers connected to master
Phase Time	Various phase time of Master and slave(s) in format:
	Red : Yellow : Max Green : Extend Green
Slave Info	Slave's controller serial number
	Additional information about all the slaves connected to master
Radio RSSI	Slave's RSSI
Battery	Slave's battery



18. Troubleshooting

No Communication

When the asset doesn't communicate on Web Studio with the following error:

Asset: BARTCO test board (174433) Error: Cannot connect to asset

POSSIBLE CAUSE	POSSIBLE SOLUTION
Asset out of mobile phone coverage	Move asset to better coverage
Sim card not inserted properly	Check sim card orientation (Reset power after re-positioning sim)
Modem Failure	Contact Bartco
Electrical	Check fuses and battery level

• Daylight Savings change

• Verify time zone on assets to ensure accurate operation of Schedule, Radar, etc.

Asset Information >>>				
 ■ #Bartco test board 1 Custom group ● ● ③ ① 3G ④ Ø Ø 				
Asset Status	Radar Status Asset Info			
Name	Value			
Date	Thu, 21 Mar 2024	*		
Time	12 : 43 (+11:00 DST)			
Firmware version	1.5.24VGE			
Serial number	A016THS328			
Active File	ARID-OAS			

 Upload time zone settings to an asset as described in section <u>15.2 Time Zone</u> <u>Settings</u>

Please contact Bartco's technical support on 1300 306 106 or <u>service@bartco.com.au</u> for any technical assistance.