Document version 1: 27 December 2022.

Contents

BEM and Toolbox Updates
Changes in this release from 11.22.7 to 11.23.1
BEM, RRD & SERIES
• UCI 2023 BMX Rule Changes
AusCycling 2023 BMX Rule Changes
• JSON API and VideoWall
• Series
Changes previous release from 11.22.4 to 11.22.7
BEM, RRD & SERIES
• TIME TRIAL – New Facilities
• Race Number Allocation
Typical Setup – USA Time Trial Requirement
Installation Procedure for the BEM version 11.23.1 Package
Earlier Changes
Changes from 11.22.3 to 11.22.4
BEM, RRD & SERIES
Changes from 11.22.2 to 11.22.3
BEM
RRD & SERIES
Changes from 11.22.1 to 11.22.2
BEM
RRD
SERIES
Changes from 11.21.0 to 11.22.1
BEM
RRD & SERIES
Changes from 11.21.7 to 11.22.0
BEM
RRD
SERIES
Operating System Requirements

BEM and Toolbox Updates

To avoid any incompatibility problems and to enable all facilities, the Toolbox program you are running should have a minimum version of 3.23.0.

Changes in this release from 11.22.7 to 11.23.1

21-Dec-22

Version 11.23.1 is both a feature and maintenance release with rule compliance changes for

- UCI BMX 2023 rules.
- AusCycling 2023 BMX rules.

Note that the UCI MTB Rule Changes applicable from 01.01.2023 for MTB-XCE, MTB-ENDURO and Pump Track are administrative changes only and therefore no BEM update is required.

BEM, RRD & SERIES

• UCI 2023 BMX Rule Changes

Compliance update for the UCI BMX World Cup transfer changes applicable from 01.01.2023.

• AusCycling 2023 BMX Rule Changes

Compliance update for the AusCycling BMX Event Code sanctioning changes applicable from 01.01.2023.

• JSON API and VideoWall

Added new controls to give separate IP and Port details for the JSON API and Moto Sheets Video Wall interfaces in BEM and RRD.

ce Order Moto Shee							
	ts	Score Board Sheets		Transponder and Camera Set	JSC	IN HTTP Report Settin	ngs
Prientation	0	Score boord Sneets			ompetition ID		
Landscape OPortrait Orientation		Show Rider's Sponsor when availab	ole				
Motos per p Numbers in () for 4	age lane gates	 Landscape 	Portrait	Show Rider's Entered Class when r	ailable	erver IP	
Landscape	Portrait	Unlocal March		Show as			
9 (12)	08 (14)	upidad Key		UCI ID	○ UCI Code	erver Port	
0 6* (15)	O 3 (5*)	Enter the Upload Ke	y from the	O Licence Number	L L		lest
04	(e) 4*	Service Provider for	FTP upload of		- 16	deo Wall Server	
02	-		to reports	Register riders as they are entered	d s	erver IP	
Õ1	O 4 + UCI ID			Show Rider Comment in Registration	on 🔰	ocalhost	
0.				Mute Sounds		Server Port	
Best for long names				Use UCI style Moto Numbering		080	Test
fault Printer				Show Group as			
Select Microsoft	Print to PDE on Ne05:			Oct	Name Format	Name Alignment	
SEEL HE SOLUTION OF HE ST.			Octob	O John Smith	() left		
Printer				Ostate	John Shitti	Center	
Select Brother HL	2040 series on Ne28:			Country		ORight	
ceipt Printer				For >1 Time Trials	U JOHN SMITH	Okigin	
Select EPSON TM	I-T88V ReceiptE4 on Ne1	7:		 Best time from any run Total time of all runs 	O Don't Format		
					Logo Control		
nter Scaling	UCI Moto 1 Li	ane Draws	Scrambled	I Motos Run-off	O Default		
· -1	Random		O Equal	l on Points	Liter Defined	User Defined	
 Allocate from 8 to 1 Can¹ 		Can't	Split on Countback	k Ohm			
Event File Back-up Path				Univone			
Select C: (#EM\Badup Events\			Embed Logo in HTML reports				
				Class Moto Sheets			
			Up to Final				
Passing Hies Back-up Path				 Include extra 			
Select C:\BEM\Backup Passings\					moto for class		Close

• Series

Corrected a problem where Series Ranking could be shown as lowest points first instead of the highest points first when the "No Tie Break" option is selected.

Changes previous release from 11.22.4 to 11.22.7

18-Oct-22

Version 11.22.7 is both a feature and maintenance release, wrapping up changes made in beta test versions 99.22.5.0 through to 99.22.5.3 plus a couple of reliability improvements.

As the beta versions had a limited distribution, changes listed here are from 11.22.4 to 11.22.7.

BEM, RRD & SERIES

• TIME TRIAL – New Facilities

In previous versions of BEM, the Time Trial provided for 1 or 2 runs (without a SuperFinal) with operator selection where there were two runs for either the best time or cumulative times to be used. With a SuperFinal there was 1 run only to qualify for the SuperFinal.

With this update, a maximum of 3 Time Trial runs are possible or 2 Runs plus SuperFinal. Note that not all Class Codes allow for 3 Time Trial runs. E.g.

- Pump Track with an Open Session format can only have 1 Time Trial run specified in BEM as the best time only from all runs is imported from BemTrain or Orbits into BEM.
- Pump Track Head to Head Dual format can only have 2 Time Trial runs, i.e. 1 each on the A and B circuits.
- Under the Class Code "TT" a new Super Final Finals Code has been added, "SF-MAX" allowing the operator to specify the Maximum number of riders to qualify for the SuperFinal from the preceding 1 or 2 Time Trial runs.

The settings available with Class Code of TT with the new Finals Code SF-MAX allow the following configuration:

- A SuperFinal will be drawn when the class meets the minimum riders for SuperFinal setting which has a range of 1 to 12. (Default of 12 per original UCI SuperFinal rules).
- The number or riders transferring to the SuperFinal will be from 1 to the maximum riders to transfer setting of 2 to 16. (Default of 5 per USA BMX requirement).
- The Finals Code of SF now allows for a lower number of riders to qualify for the SuperFinal as per the following table.

BEM Min_SuperFinal Setting	Number in Class	Number in Super Final
	Less than 12	0
12	12 to 15	6
(UCI Rule Compliant)	16 to 23	8
	24 or more	16
	Less than Min_SuperFinal	0
	1 to 2	1
	3 to 4	2
1 to 11	5 to 8	4
	9 to 11	6
	12 or more as per UCI rule	
	(above)	

• Race Number Allocation

The existing auto Race Number Allocation has been extended, allowing start numbers up to 999 to be allocated.

TT SF-MAX Test X				
Auto Assign Plate Numbers for Women Elite OK Cancel				
Start each Cla	ass number at:	Auto allocate race numbers using the following options		
€ 10	C 100	Allocate if blank		
C 20	C 200	Allocate if XXX		
C 30	C 300	Skip number 13		
C 40	C 400			
C 50	C 500			
C 60	C 600			
C 70	C 700			
C 80	C 800			
• 51				

- Operator generated JSON reports and JSON reports sent to the JSON API now includes a new field, "CompetitionRound" which has the round number in round specific reports, e.g. Qualifying 1, Semi Final etc and will be blank for non-round specific reports such as Full Results.
- For Class Code of TT, added selection of three start order options for the Time Trial runs matching those for MTB XCE.
- Added protective patch to avoid a debug stop should an error be returned from calls to Windows API dwMilliseconds.
- JSON reports sent to the JSON API now accept HTTP 200 as a valid response in addition to the previous HTTP 202 response.
- Update to the Riders by Country report to include the rider's UCI ID.
- Corrects a debug error when doing a rider search in Review Entries where none of the entries have data in the Last Name field.
- Corrects a debug error in Review Entries when clicking on Update Details when the First and Last Name fields are blank.
- Corrects a problem where Time Trial 2 was not always included in the race list reports.
- Default Score Code for Pump Track was wrongly specified to DNS=LANES instead of the expected DNS=OUT.

With this correction, the options have been expanded for Pump Track for the operator to specify either DNS=OUT or DNS=LANES.

- Corrects a fault where the Competition Round was not shown in JSON Start List reports for Pump Track Open Session elimination stages.
- Add the Competition Round in JSON Time Trial Results where there is only one TT run.

Typical Setup – USA Time Trial Requirement

The following setup is how the anticipated requirements for the USA stand-alone Time Trial event is set up to have 2 Time Trial runs with a maximum of 5 riders transferring to a Time Trial SuperFinal. Assumption is that all categories will run under the same format.

Event Setup in the Toolbox

• In the Toolbox when creating (or editing) the event, the following Event Level settings are required:

ent Details				
Event Name	Event Location		ОК	
TT SF-MAX Test	Bemman Man C	Bemman Man Cave		
	Competition ID	(for JSON API)		
Event Sponsor	Event or Sponsor rela	ated website to appear on reports	1	
Moto-Sheets.com	Actual web page link. E.g. www.something.com	Link Text. E.g. Actual link or Click here for web page		
Date for Licence Expiry Check	http://redbullpumptrackworldchampionship.com/	Click here for Red Bull website		
26 💌 Jul 💌 2022 💌	AusCycling Class of Event & Location	UCI Competition Code	Events, enter the UCI	
Date for Age Determination	None V 31 V	assigned Compet	ition Code	
31 🕶 Dec 💌 2022 🕶		Print Paper Size		
Motos before Final Number of Star	ting Lanes	A4 (210 mm x 297 mm)		
1 - 8 -		Valid Licence Types		
inimum Riders for B (Consolation) Final Minimum in class for B (consolation) fir EXPTCONS and EXPTCONS-F or Finals	al for Class_Code of s_Code A-B	Licence types separated by comma(s) E.g O,S Leave blank for no checking		
	Class Code INV and INV-F	Event Mode		
Minimum Riders for Invitation Finals Minimum in class for B,C etc (Invitation) final(s) for Class_Code of INV and INV-	C Final Numbe F 10 Final 99	r of Finals Maximum Number of Finals G BMX / Pump Track / 4x C MTB Enduro (Gravity Enduro)		
 Immum Riders for One Gate Final Minimum in class for Final for Class Code alowing for a Final with a single gate (fw E.g. UCL+F, ENPT+F, Enter 3 to number of starting lanes 	s Number of Time Trais Values >2 require BEM 11.22.5 or later	Minimum Riders for Time Trial Super Final Minimum in class for Time Trial Super Final for UCI "-SF" MAX" Finals Code Set to 12 for UCI Rules. Values1-12 accepted. Maximum number of riders to transfer to Time Trial Supe Super S-16 accepted.	Class_Codes and "SF- r Final -MAX"	
2 Time Trials before SuperFinal	Not sure of this facility requirement but if set to 1, there will be a SuperFinal drawn for all classes with entries	Maximum of 5 riders to transfer to the SuperFinal irrespective of the number in the class]	

• Class Level settings:

	Configure Classes			×
	Class Number			Accept Change
	Class Long Name Men Elite	Class Type 1 Enter 1=20* 5=20*	1 - 5. E.g. , 2=24°, 3=MTB, 4=other AusCyding Advanced Rider	Cancel
	Class Short Name	Minimum Entries	Entry Fee 1	Fee Code 1
	UCI Event Code For Chamionshi Events, enter t	ip Classes at UCI Ranking he UCI assigned Event Code.	75.00 Entry Fee 2 0.00	N Fee Code 2
Class Code TT	Class Code	Time Trial - Stand alone event.		1
Score Code DNS=OUT in this example but can	Score Code DNS=OUT	1 point for first, 2 for second. No tra	ansfer for any DNS.	
use DNS=LANES	Finals Code	Time Trial (1 or 2 runs) + SuperFinal "Minimum Riders for Time Trial Super Maximum number of riders to transfe	dependant on minimum entries ir r Final" er to the SuperFinal dependant or	n Class per setting of n setting Maximum Riders to
MAX	Class Sponsor Bob's Burgers	transfer to filme Thai Suber Hhai. Ke	oures b⊵m version 11.	

Event Setup in BEM

• Presumption is that the Best time from the two Time Trial runs will be used to qualify for the SuperFinal however Total Time from both runs is possible.



• Draw the Time Trial runs here:

A Event Manager - MAININ	include in or mass lease				
ntry Management	Report Type				
Add Entries	Preview	O Printer	O HTML		Finals Menu
Review Entries	Clipboard	1 Collate	Scroll 60		
Edit Entries					
Merge Classes	Moto Sheets	Manual Score	Lists		Enter Results
C-PAN	One Moto	One Class	Riders by Class	Riders by Club	Select Class
Split Merge	All Motos	All Classes	All Entries	Riders by Country	Colort Dourod
Set Race Order	Order	Full Grid	Decistration	Pider Details	Seect Round
Multi Class	Class Race	Shootout Finals	Registration	rouel Details	Select Race
Duplicate Plates	O Range O Multi	○ Time Trial	Non Payers	Classes by Type	Calculate
	Format	Result Sheets	Expired Licence	Merchandise	Curculate
All Transponders	● BEM ○ UCI	One Moto	LICI DataDid	le Start List (Evcel)	Club Points
Class Transponders	List: Race / Lane	All Motos	OCI Datakite Star (Excel)		Transponders
Rider Ranking	O List: Gate / Lane	Race Range	Race Ord	der hand out List	Load List
Export Data	Score Board Sheets	Multi Ranges	Entries per Class	Race List	Auto Assign
aw Motos	O BEM O UCI	Races / page	Class Order	One Moto	Return Check
One Class	Commentary- Sponsor	9 (landscape)	Make Carlos	Complete Event	Auto Plate Numbers
All Classes	Show Moto Points	4 (portrait) 1 (3 pencillers)	Moto Urder	complete Event	One Class
	Gate Check	0.5 (5 pencilers)	Final Order	Print/Preview	All Classes
aw Time Trial	OL2R OR2L	A6 Paper	Include moto	O Lynx Events	Cotions
Une Class	O Pump Track Grid	Penciling Race Summary	numbers	C) cynx scheddie	Opuons
All Classes		C Race Summary			Quit

.

• Draw the SuperFinal here once both Time Trial runs are scored.



Installation Procedure for the BEM version 11.23.1 Package.

Please do not proceed with the installation unless you have both your Registered User Code and the Upgrade Code applicable to this version.

Should you wish to purchase an upgrade to the 11 series or have purchased an upgrade and do not have your User or Upgrade Codes, please contact <u>lyndon@moto-sheets.com</u>

Open the downloaded 2c BEM 11 Production 11-23-1.zip file and save the 2c BEM 11 Production 11-23-1.msi file in any convenient location.

Any BEM installed with a version commencing with 11 MUST be removed via Control Panel, Programs and Features before installing this update.

E.g.

Uninstall or change a program

To uninstall a program, select it from the list and then click Uninstall, Change or Repair.

Organise 🔻 Uninstall Change Repair				
Name	 Publisher 	Installed On Si	ize	Version
📧 BemTrain	Bemman	02/10/2022	4.64 MB	3.3.1.9
EII BEM Toolbox3	Bemman	26/07/2022	3.35 MB	3.22.8
BMX Event Manager	Bemman	28/06/2022	32.1 MB	11.22.4

Double click on the **2c BEM 11 Production 11-23-1.msi** file saved earlier (see page 10) to start the installer.

BMX Event Manager	
Bmx Event Manager	3 33
The installer will guide you through the steps required to install BMX Ever computer.	nt Manager on your
WARNING: This computer program is protected by copyright law and inte Unauthorized duplication or distribution of this program, or any portion of i or criminal penalties, and will be prosecuted to the maximum extent possit	ernational treaties. t, may result in severe civil ole under the law.
Cancel < Ba	ck <u>Next></u>

The following screen is displayed.

Click Next to proceed and the following screen is shown.

😸 BMX Event Manager	
Bmx Event Manager	
The installer is ready to install BMX Event Manager on your computer. Click "Next" to start the installation.	
Cancel < <u>B</u> ack	Next >

Click Next to start the installation and wait for the Installation Complete message (below).

😸 BMX Event Manager		
Bmx	Event Manager	6.6
BMX Event Manager has been successfu Click "Close" to exit.	lly installed.	
	Cancel	Back Close

Note that the installation is hardcoded into the folder structure: C:\BEM\Programs\Event\3.11.x\ for BEM and Series programs C:\BEM\Programs\Report\3.11.x\ for the RRD program.

If not done previously as per step 2.1 on page 26 of this document, Office 2007 and Office 2010 users should include the path C:\BEM\Programs in the Excel list of trusted locations.

The installation procedure installs the BEM, RRD and Series programs, adds the BMX Event Manager group in the Programs Menu and provides shortcuts on the Desktop.



Note: if the shortcuts are added but with default rather than the custom icons, please contact <u>lyndon.downing@bigpond.com</u> for assistance to resolve this issue.



Double click on the BEM icon

Note that the registration status at the top left of the screen will always show "Unlicenced Copy" before the language selection is made

BMX Event Manager©		×
Select Language / (Choisissez la langue	OK
	English	
- (1 1)	🔘 Spanish	
	Trench	
	🔘 German	
	🔘 Italian	
	🔘 Czech	
۲	Portuguese	
		_

Select the required language option then click OK

If you do not have a Registered User Code or Upgrade Code for this version then please contact <u>lyndon.downing@bigpond.com</u>

At the following prompt, enter your Registered User Code

BEM	×
Please enter your Registered User Code	ОК
	Cancel

At the following prompt, enter your upgrade code:

BEM	×
Enter your upgrade code for BEM version: 11.23.1.21 Dec 2022	ОК
	Cancel
I	

The BEM version and your PC's Excel version and build details will then be shown.

Check that your BEM version and date is as shown below.

BMX Even	t Manager© (5)		×
a	BEM Version 1	1.23.1, 21 Dec 2022	
	by Lyndon.Dov	vning@bigpond.com	
	A UCI Sanction 2023 UCI BMX 2023 UCI Pump 2023 UCI MTB	ed BMX Program for Rules) Track Rules 4X, Enduro & XCE Rules	
	also supportin Australia Britain Canada Denmark Europe	g Regional Rules for:	
	Finland		
	Italy New Zealand		
	Peru		
	South Africa Switzerland		
	Excel Version:	14.0, Build: 7268	
		ОК)

The banner also includes the Excel version and Build numbers running on your computer as a quick check that you have the latest Microsoft Office updates installed. If you do not have versions at least matching the following, there is a good chance that your version of Excel is not up to date and may result in unpredictable operation of the BEM program.

Version	V Build	Comment
11.0	8404	Excel 2003, Service Pack 3+
(12.0	6762	Excel 2007, Service Pack 2+
14.0	7268	Excel 2010, Service Pack 2+

Select the appropriate Association / Region or UCI if used for other than the listed Associations.

Sel	ect Association		×
	Association selection determines the transfe system used for Scrambled Motos, not "pure" UCI rules.	r	ок
	Australia	•	
	Australia Britain		
	Canada		
	Denmark		
	Europe		
	Finland		
	Germany		
	New Zealand		
	Peru		
	South Africa		
	Switzerland	-	

Note that the first time the BEM program is run as a first installation, the Event Files and Passing Files back-up paths may not be set or not valid and the following reminder message will be received.

BEM	×
The Event and/or Passing File back up path needs to Options screen which will be displayed when this m	o be set in the BEM lessage is closed.
	ОК

Note that the **Event File Back-up Path** and **Passing Files Back-up Path** are blank and need to be set.

BEM Options							×
Race Order Moto Sheets Orientation		Score Board Sheets Orientation	⊡ sh	Transponder and Camera Settings Iow Rider's Sponsor when available	3	JSON API Report Settings	
		ait Sh	ow Rider's Entered Class when merg ow Rider's UCI identity when availab Show as © UCI ID Ucence Number cigister riders as they are entered ow Rider Comment in Registration the Source	Competition ID Server IP Server Port E.g. IP: localhost or 192, 168.0. 101			
* Best for long names			Us	e UCI style Moto Numbering		Port: 8080	
Default Printer Select FX DocuPrin A6 Printer Select Brother HL-: Receipt Printer Select EPSON TM-1	t M225 z on Ne 10: 2040 series on Ne 28: 788V ReceiptE4 on Ne 1	17:		Show Group as Club State © Country For 2 Time Trials © Best time from either run Total time of both runs	Name Format John Smith John SMITH JOHN SMITH Don't Format Logo Control	Name Alignment	
Printer Scaling -1 Event File Back-up Path Select Passing Files Back-up Pa	UCI Moto 1 Li Random Allocate	from 8 to 1	mbled Motos Ru Equal on Points Can't Split on C	n-off ountback	 Default User Defined None Embed Logo in the Class Moto Sheets Up to Final Include extra moto for class 	HTML reports	
Select					without final		

If you recoded the settings from an earlier version BEM installation restore those settings now. To select the paths, click on respective **Select** button, navigate to the required back up folder and then click on the **Save** button.

Select Event Back	c-up Path					? ×
Save <u>i</u> n:	🐌 Backup_E	vents	- 🔄	- 过 🖏	X 📑 🎟	▼Too <u>l</u> s ▼
Probikx - Champbikx	Name	Date modified	Туре	Size		
2011 Cairns	BU_Nation	nals 2011 Challenge Finish Result Testing	and Champio 1.bem	onship - no S	Sprocket.bem	Complete
길 вем	BU_Friday	Block 1 20 Inch 2011	Nationals.be	em vnamite Rou	und 9.bem	After Moto 1 After Moto 2
)) 2K3.01	BU_BU_Sa	turday 20 Incl ^{Type:} Champbikx ^{Size: 9}	BEM File 59 KB			After Moto 3
) 2K3.02	BU_Sprock	kets 2011 National	nodified: 2/0	5/2011 8:20	AM	After Semi Fina
📃 Desktop	BU_Maste	r Registration 2011 N	ationals.bem	n		
My Documents	BU_All Na	tionals Sprok-20-Cru	iser Classes 2	2011.bem		
My Computer	BU_2011 P B Zarchive	robikx Champbikx R	ound 2 Frank	ston.bem		
My Network	•					•
My Recent	File <u>n</u> ame:	Event File.BEM			-	<u>S</u> ave
The Deciments	Save as type:	Event File (*.bem)			-	Cancel

Select Back-up Pa	ath for Passing	Files			E March State	-	? X
Save in:	Passing B	ackup	- 🕹	-1	× 💣 🖩	■Tools	-
Probikx -	Name	Date modified	Туре	Size			
2011 Cairns	TEST ONL	Y Round 5, Probikx Y Round 5, Probikx	Champbikx Champbikx	2010 Tugger 2010 Tugger	anong_P0020 anong_P0020	52.txt 51.txt	
🔒 ВЕМ							
\mu 2K3.01							
) 2K3.02							
🧮 Desktop							
My Documents							
My Computer							
My Network							
My Recent	File <u>n</u> ame:	Passing Files.TXT			-		<u>S</u> ave
Documents	Save as type:	Passing Files (*.txt)			-		Cancel

Options screen shown with the Back-up Paths selected.

EM Options						
Race Order Moto Shee	ts				_	d
Orientation		Score Board Sheets		Transponder and Camera Settin	gs	ISON ART Report Settings
Landscape OPortrait Orientation		Show Rider's Sponsor when available		JOON APT Report Settings		
O Landscape Portrait		Portrait	Show Rider's Entered Class when me	rged	Competition ID	
Motos per p Numbers in () for 4	lane gates			Show Rider's UCT identity when avail	able	
Landscape Portrait			Show as			
9 (12)	08 (14)	Upload Key		UCI ID) UCI Code	Server IP
0 6* (15)	O 3 (5*)	Enter the Upload Ke	from the	O Licence Number		
04	4*	Service Provider for results from RRD Au	FTP upload of to Reports			Server Port
02	0.4.110770			Register riders as they are entered		Т
O 1	0 4 + UCI ID			Show Rider Comment in Registration		E.g. IP: localhost or 192 168 0
				Mute Sounds		Port: 8080
* Best for long names				Use UCI style Moto Numbering		
Default Printer				Show Group as	Name Format	Name Alignment
Select FX DocuPr	int M225 z on Ne 10:			O Club	O John Smith	Left
A6 Printer				◯ State	John SMITH	O Center
Select Brother HL	-2040 series on Ne28:			Country	O JOHN SMITH	◯ Right
Constant Drinter				For 2 Time Trials	<u> </u>	
(eceipt Printer		_		Best time from either run	O Don't Format	
Select EPSON TM	I-188V ReceiptE4 on Ne 1	.7:		 Total time of both runs 	Logo Control	
triptor Scaling	LICI Moto 11	ano Drawo	Commission	Motor Purp off	 Default 	
	UCI MOTO I L	ane braws	Scrampled	notos Rui POIT	User Defined	
1	Random		O Equal	on Points	O None	
	 Allocate 	from 8 to 1	 Can't 	Split on Countback	Embed Loss in	HTML reports
Event File Back-up Path	h				C chibed Logo in	initia reporta
Select C:\BE	M\Backup Events\				Class Moto Sheets	
					Up to Final	
Passing Files Back-up P	ath				 Include extra 	
C:\BE	M\Backup Events\Backur	Passings\			moto for class without final	
Select	- poundp a rento poundp					

Once the Event File Back-up and Passing File Back-up paths are selected and the Scrambled Motos Run-off setting is made you can close the options screen and select an Event File.

NOTE: settings for the SportsLists **Upload Key** and JSON API **Competition ID** can only be made once an event file is opened.

Earlier Changes

Changes from 11.22.3 to 11.22.4

28-June-2022

BEM, RRD & SERIES

• Correction to the building of the Race List when two Time Trial / Pump Track Qualification stages are specified.

Note that scoring was not impacted by the issue being corrected.

• Update to the Time Trial Start List (moto sheet) printed format to use heavier lines between each rider as some printers do not consistently print the faint lines in the previous print template.

Changes from 11.22.2 to 11.22.3

09-Jun-22

BEM

• Introduces a new Class Code PT-PART for the processing of the Pump Track Participation category where in a similar vein to the PART Class Code for BMX scrambled motos, riders are not scored with placings, only shown as Finish, DNF or DNS.

When the Qualification/Time Trial round(s) are drawn, categories with PT-PART will also draw a Final Run for all riders in the Finals round. I.e. no rider is eliminated from the Qualification stage.

RRD & SERIES

Alignment with BEM changes for the new Class Code.

Changes from 11.22.1 to 11.22.2

31-May-22

BEM

- For Pump Track events, change the stage name from Time Trial to Qualifying for alignment with the stage name in UCI Rule 4.6.008.
- Add new facility to send Json Start List and Result Reports to the JSON API for subsequent distribution to scoreboards and live stream graphics.
 - Interface settings and the event specific Competition ID added to the BEM Options screen together with a Test connection button.

M Options							
tace Order Moto Sheet	ls -					Close	
Orientation		Score Board Sheets			109		
Landscape Orientation			Show Rider's Sponsor when availabl	e / "	SON APT Report Settings		
		O Landscape Por	trait 🗹	Show Rider's Entered Class when m	erged (Competition ID	
Numbers in () for 4	age lane gates		Ø	Show Rider's UCI identity when avai	lable		
Landscape Portrait		Challened Marris		Show as			
	0 8 (14)	opioau key		UCI ID	UCI Code S	Server IP	
O 6* (15)	O 3 (5*)	Enter the Upload Key from th	e	O Licence Number			
04	4*	Service Provider for FTP uplo results from RRD Auto Report	to be			Server Port	
02	0.4.117770			Register riders as they are entered		Test	
O 1	04+0crib			Show Rider Comment in Registration		a IP: localbost or 192 168 0 101	
				Mute Sounds	N i	Port: 8080	
Best for long names				Use UCI style Moto Numbering			
efault Printer				Show Group as	Name Format	Name Alignment	
Select FX DocuPri	nt M225 z on Ne10:			() Club	O John Smith	Left	
6 Printer				() State	John SMITH	Center	
Coloct Brother HI	-2040 series on Na78-			Country	O JOHN SMITH	○ Right	
Jelect brobler ne	2010 30103 01110201			For 2 Time Trials			
ecept Printer				Best time from either run	O Don't Format		
Select EPSON TM-	-T88V ReceiptE4 on Ne:	17:		 Total time of both runs 	Logo Control		
				- "	ODefault		
inter scaing	OCTIMOLO I L	arie Uraws SC	ambleu Motos	KUN-OTI	(e) User Defined		
-1	Random	0) Equal on Poir	nts	None	O None	
O Allocate from 8 to 1 O Can't Split on Countback							
ent File Back-up Path					Calbed Logo In Pills	ic reports	
Select C:\BEN	<pre>AllBackup Events\</pre>				Class Moto Sheets		
					Up to Final		
issing Files Back-up Pi	ath				Indude extra		
C'IREN	d\Back in Events\Back i	n Paesinne\			moto for class without final		
Select	record create booking	a cooriga (And Idde In Ide		

• JSON API Start List option added to the Moto Sheets group and JSON API selection added to the Report Type group in List Results on the Finals Menu.

inter Results					
Select Class	Select Round	Select Race			Exit
Cone Class All Classes All Classes Select Stage Proff (End Motos) Shootbut and ABA Transfer to Moto 2 Transfer to Moto 3 First Final - Al Classes IT SuperFinal IJ32 Final IJ32 Final IJ38 Final IJ46 Final I	Moto Sheets	he Moto he Class ze Range is Ranges sheets st List ponsorr Q Land	Result Sheets One Moto One Class Race Range Multi Ranges Races / page 9 (Indership) 4 (port pait) () 1 (3 pencilers) A6 Paper O Penciling	Report Type Preview Copies Clipboard Clipboard Collast Cone Class Profit Type Soft Pie Soft Pie Soft Pie Cone Round Final Results Full Results Top 8	ter OHTML Auto Scroll Scroll Al Classes Al Classes Al Classes Order Orial Order Orial Order Orial Order Start each Class on a new page Show Lap Times
Run Off (QF to SF) Semi Final	Gate Check	ORZ	O Race Summary	Time Trial Newspaper (J. Smith) Newspaper (John Smith)	when available Show Start Reaction when available
ORun Off (SF to Final)	Excel Report File Create	UCI Results	(DataRide) (Info Strada)	Lap Time and Split Time C Fastest 50 T C Fastest 50 F Fastest 50 F Fastest Time	imes iders per Rider per Class

• Json report format updated to include the event specific Competition ID and for Pump Track, change Time Trial heading to Qualifying.

RRD

- Json report format changes for operator generated reports updated to the new format with the Competition ID while maintaining the existing format for SportsLists upload.
- Add new facility to send Json Start List and Result Reports to the JSON API from the Auto Reports Moto Sheets and Results tabs and from the Reports menu.
 - Note that the interface settings for the JSON API are only made in BEM and inherited by RRD. • Auto Reports – Moto Sheets tab, added JSON API option in addition to the existing
 - Auto Reports Moto Sheets tab, added JSON API option in addition to the existing JSON File selection.



• Auto Reports – Results tab, added JSON API option in addition to the existing JSON File selection.

Pump Track Open Session TEST		×				
Auto Reports not started File Save Details: 07/04/2022 06:58:13		Options Cancel				
Refresh Time (min) FTP Send Interval	Start Reports Stop Reports	Print Reports Moto Sheets Finish Line Results One Class Report Type				
Per-Class HTM Reports	Al Classes Only Classes with entries Race / Lane Gate / Lane UCI Format Enduro Start List Rump Track Grid Enduro Start List	Constant and the set of the				
Vinter product and the set of the set o	Pump Track Grid SportsLists FTP Settros Auto Printing per Round Draws Results	Reset Re-select Network Printers at the start of each day ①				
Top Level Folder for Events Per Class and Event Level Reports Select Cr\PEM/JustReports\ I 2 3 5 7 8 Qualify Run Off Run Off Run Off Run Off Run Off Run Off Final Server						

• Report Menu – added JSON File and JSON API options to the JSON report type.



SERIES

Alignment with BEM changes.

Changes from 11.21.0 to 11.22.1

BEM

- Introduces a new feature to run Mountain Bike Cross Country Eliminator (XCE) format events in conformance with UCI MTB 2022 rules.
 Configured in BEM with a new Class Code of MTB-XCE and Score Code of XCE
- Adds a new option for Pump Track Open Session format events to limit the number of riders transferring from the Timed Stage to 16.
 Note that while this is not in conformance with UCI Pump Track Rules, the format has been requested for use at World Championship qualifier events.
 To avoid confusion with the current Pump Track Open Session Class Code, two new Class Codes have been introduced:

PT-OS-32	UCI compliant rules and identical function to the existing PT-OS Class Code.
PT-OS-16	"Red Bull" Open Session variant limiting transfer from the Timed Runs to 16 riders.

RRD & SERIES

Alignment with BEM for the new Class Codes.

Changes from 11.21.7 to 11.22.0

BEM

- Update for compliance with UCI BMX 2022 rules.
- Update for compliance with AusCycling BMX 2022 rules.
- Introduces a new feature to run MTB Enduro events with BEM. Rule compliance is based on UCI Rules, Part 4 Mountain Bike Chapter V with flexibility to adapt to association specific requirements. Configured in BEM with new Class Code of MTB-ENDURO.
 - Design caters for a maximum of 15 timed stages per event.
 - Individual transponder settings used for each timed stage allowing for a mixture of gate / photocell and loop start.
 - Time penalties and reason for the penalty can be added per rider per stage.
 - New Enduro specific print, HTM and Json reports added.
- Added a new selection option of Licence Number to the existing display of rider's UCI ID or UCI Code in selected reports.
- Changes for the different data format delivered by Timing and Scoring for Gate Start Transponder numbers from the Smart and Desktop decoders.
 With this update, the Start Gate Transponder entered in BEM now uses the same format for both decoder types, i.e. 00-09991, 00-09992 or 00-09993
- Correct the import of lap times in Orbits results format where the decimal part of the time is other than 3 digits.
- Re-format Pump Track Open Session JSON start list reports for alignment with RRD.
- Make provision for race range JSON start lists.
- Correction to UCI DataRide results report for Pump Track events.
- Changed Pump Track stage labels Round 1 and Round 2 to the more meaningful **Round of 32** and **Round of 16**.
- Updated event database in preparation for the AusCycling Advanced Rider feature.

RRD

- Add a new selection option of Licence Number to the existing display of rider's UCI ID or UCI Code in selected reports.
- Make provision for race range JSON start lists.
- Re-format Pump Track Open Session JSON start list reports to be in Time Trial start list format.
- Align Auto Reports JSON file names for Open Session start lists to a common format.
- Added a new report selection in Auto Reports in both Per-Class and Event Level reports for Enduro Start List reports.

Enduro TEST 1			×			
Auto Reports not started File Save Details: 01/10/2021 11:28:03		Options	Cancel			
Refresh Time (min) FTP Send Interval	Start Reports	Print Reports Moto Sheets Finish Line Results				
Per-Class HTM Reports Per-Class HTM Reports Hoto Draws Qualifier & Final Draws and Results Hoto Results Full Results Time Trial Draws and Results Event Level HTM Reports Fortige ner Class	Al Classes Only Classes with entries Orace / Lane UCL Format Enduro Start List Pump Track Grid	One Moto C JSON File Comm One Class Image Start each Class on a new page C Por Image Image Image C Land Race Range Score Board Sheets Gate Class Multi Ranges C Portrat C Left Image Image C Rigit	entary-Sponsor trait dscape w Moto Points theck t to Right ht to Left			
Full Results Race Orders Moto Results Time Trial Draws and Results Round Results Round Results Final Upload Key Upload HTM Reports via FTP Tab Delimited Event Export	Pump Track Grid SportsLists FTP Settings Auto Printing per Closs per Round Draws Results	Reset Re-select Network Printer • 0 Samsung M267x 287x Series on Ne03: • 0 Brother HL-2040 series on Ne27: • 0 Brother HL-1440 series via Router on Ne16: • 0 Brother HL-1440 series via Router on Ne16:	s at the start of each day Select Select Select Select			
Top Level Folder for Events Per-Class and Event Level Reports Select D: BEM/Auto Reports Stage1 Stage2 Stage4 Stage5 Stage5 Stage7 Stage8 Stage9 Stage10 Stage11 Stage12 Stage13 Stage14 Stage15 Final Rot Drawn Part Drawn No Results Part Results Viaiting Photo Complete Click on Round for detailed display of Status per Class						

- Correction to the operator generated Enduro Start List reports to match the Time Trial Start List format.
- Correction to an omission in earlier builds to the generic category selection user-form which could result in a program error with some operator generated reports from the Report Menu.
- Auto report file names for single stage Pump Track results change from Stage Round 1, Stage Round 2 to Stage Round of 32, Stage Round of 16.
- Corrected a bug with operator generated round reports for Pump Track Open Session results where the wrong format report was being generated.
- Update for compatibility with MTB Enduro changes in BEM.
- Update Json report files used for SportsLists for Enduro.
- Removes unexpected and unwanted operator warning for a class with 0 entries when Event Level Time Trial Draws and Results is selected.

SERIES

- Add a new selection option of Licence Number to the existing display of rider's UCI ID or UCI Code in selected reports.
- Alignment with BEM feature changes.

Operating System Requirements

The recommended PC environment is:

Operating System: 32 or 64 bit versions of Windows XP, Vista (OK but best avoided if possible), Windows7 and for Windows 8 & 8.1 and Windows 10, full versions, not the RT tablet versions.

If you are using BEM in a networked environment to run transponder timing or the RRD program, use of the Professional rather than the Home versions of Windows are strongly recommended.

Microsoft Office: Office 2003, 2007 or Office 2010.

Note that BEM does not run on Office 2013, 2016 or Office 365 as Microsoft have not maintained full backwards compatibility with Office 2010, 2007 and 2003 versions.

For new PCs that come pre-installed with an Office version later than 2010, the following options are suggested.

- 1. If you don't have a specific requirement for the new facilities in the pre-installed version Office and haven't paid the licence fee for that:
 - a. Totally remove Office from the PC.
 - Buy and install a legitimate version of Office 2010 from eBay or from a download retailer such as <a href="https://www.ecrater.com.au/p/30522352/microsoft-office-2010-pro-plus-32-64-bit?gps=1&id=115926669379&keywords=&gclid=CjwKCAjwm4rqBRBUEiwAwaWjjK60coZew2EOxi9W_eodOHFfGc8FKc4vya1IbS3VT41eix1YEFxqnBoCRJgQAvD_BwE or https://theunitysoft.com/product/office2010proplus/?gclid=EAIaIQobChMI07_I7NXN4AIVGK6 Wch2pWwWhEAYYBCABEgJcpvD_BwE

Typically a legitimate licence is available for around \$10 - \$30, significantly cheaper than the Office 365 / 2016 licence that Microsoft would like you to purchase.

- 2. If you need to keep the pre-installed Office version on the PC with either Win7, Win8 or Win 10.
 - a. Do a partial installation of Office 2010 installing only Excel 2010 which will happily co-exists with later Office versions.
 - b. To get BEM to open with Office 2010 when you also have later Office versions installed then either:
 - i. Open Excel 2010 before clicking on the BEM icon.
 - ii. Set up your own shortcuts to BEM, RRD, Series and Toolbox that direct to Office 2010. Note that in some PCs, particularly non-english language versions of Windows, the path to Office14 Excel may be different to this example.

Typical Shortcut Target when Office 2010 is a 32bit installation

BEM

"C:\Program Files (x86)\Microsoft Office\Office14\EXCEL.EXE" "C:\BEM\Programs\Event\3.11.x\Bem2K3.xls" **RRD**

"C:\Program Files (x86)\Microsoft Office\Office14\EXCEL.EXE" "C:\BEM\Programs\Report\3.11.x\Rrd2K3.xls" Series

"C:\Program Files (x86)\Microsoft Office\Office14\EXCEL.EXE" "C:\BEM\Programs\Event\3.11.x\Series2K3.xls" Toolbox

"C:\Program Files (x86)\Microsoft Office\Office14\EXCEL.EXE" "C:\BEM\Programs\Toolbox\BEM_Toolbox3.xls"

BemTrain

 $"C:\Program Files (x86)\Microsoft Office\Office14\EXCEL.EXE" "C:\BEM\Programs\BemTrain\BemTrain.xls" and BemTrain\BemT$

Typical Shortcut Target when Office 2010 is a 64bit installation

BEM

"C:\Program Files\Microsoft Office\Office14\EXCEL.EXE" "C:\BEM\Programs\Event\3.11.x\Bem2K3.xls" RRD

KKD

"C:\Program Files\Microsoft Office\Office14\EXCEL.EXE" "C:\BEM\Programs\Report\3.11.x\Rrd2K3.xls" Series

"C:\Program Files\Microsoft Office\Office14\EXCEL.EXE" "C:\BEM\Programs\Event\3.11.x\Series2K3.xls"

Toolbox

 $"C: \ Program Files \ Microsoft \ Office \ 14 \ EXCEL. EXE" \ "C: \ BEM \ Programs \ Toolbox \ BEM_Toolbox \ 3.xls"$

BemTrain

"C:\Program Files\Microsoft Office\Office14\EXCEL.EXE" "C:\BEM\Programs\BemTrain\BemTrain.xls"

To add these shortcuts to the start menu, copy and paste or create the shortcuts in the following 'Hidden' folder:

C:\Users\username\AppData\Roaming\Microsoft\Windows\Start Menu\Programs

Now open Start Menu > All apps and locate the shortcut(s) you placed. Right-click on it and select Pin to Start.

The following preparatory actions if not already implemented from earlier releases of BEM will avoid compatibility problems.

- 1. Download and install the latest applicable Office 2003 / 2007 / 2010 service packs and updates. This is very important as there is a history of unpredictable operation should the latest Microsoft updates not be installed.
- 2. For users running Office 2007 and Office 2010.
 - 2.1. Include the C:\BEM path and any other locations where you save BEM files in the list of Excel Trusted Locations. Method:
 - 2.1.1. Open Excel.
 - 2.1.2. Select File then Options.
 - 2.1.3. Select **Trust Center**.
 - 2.1.4. Click on **Trust Center Settings...** button.
 - 2.1.5. Click on Add new location... button and add any required paths and select the Subfolders of this location are also trusted if appropriate and then click on OK to accept and close the dialog

2.1.6. . • Click on OK to close each of the dialogs until back in Excel which now can be closed.