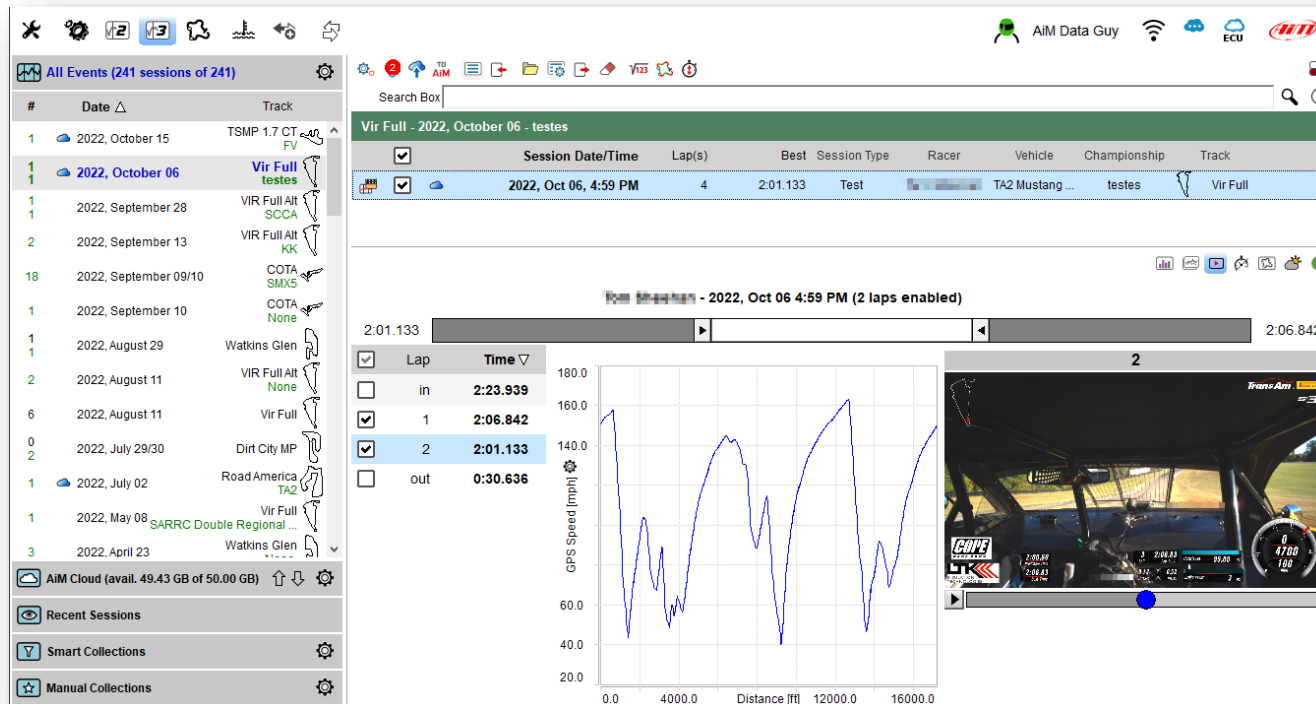


'AiM Cloud' Data Sharing

Fast, Safe, and Powerful



Host:
Roger Caddell
AiM Sports – Training Manager



Co-Host:
Emiliano Bina
AiM-Sportline – Software Lead



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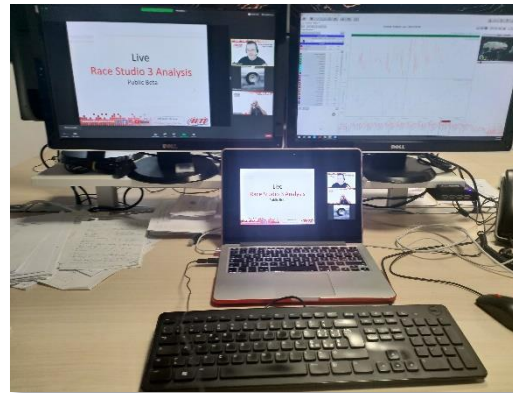
Tuesday November 29th, 2022

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Emiliano Bina
software@aim-sportline.com



- Graduated in 2000 as Road Vehicles Engineer with a Thesis on a Simulation Model for Toyota Prius Hybrid Powertrain
- Software Developer for AiM Since 2000: RaceStudio2 Analysis, DragAnalyzer, GPSManager, RaceStudio3
- Passion for Sim Racing and Motorsport, Cooperated for Data Analysis in Endurance Races
- Many Time AiM Sports Webinar Co-Host!



Emiliano Bina

AiM-Sportline Software Developer



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AiM Cloud

Starting with RaceStudio3 release 3.54.00, AiM allows cloud sharing for data and video. For AiM Cloud to work, you must have an AiM User Registration introduced before.

Logged files can be copied on a cloud server, to be shared across all PCs of a single user or between several users. The data analysis process will not be on the AiM Cloud/Server side, it will continue to stay local on the user's PC.



AiM Cloud Data Sharing

AiM Cloud



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Integration with RS3A Database



The database window will now show some minor changes, allowing cloud items in. These new items will be visible when there's a valid internet connection and the user has been logged in.

AIM Cloud (avail. 49.97 GB of 50.00 GB)

Session Date/Time	Lap(s)	Best	Session Type	Racer	Vehicle	Championship	Track
2019, May 09, 5:04 PM	12	0:49.242		BIAGIOLI		emiliano	Branduzzo
2019, May 10, 12:16 PM	12	0:49.007		BIAGIOLI		emiliano	Branduzzo
2019, May 10, 12:16 PM	12	0:48.734				emiliano	Branduzzo
2019, May 09, 5:04 PM	11	0:48.922				emiliano	Branduzzo

BIAGIOLI - 2019, May 10 12:16 PM (9 laps enabled)

Lap	Time	Pct	Min	Avg	Max
out	1:01.540	125.57	0	38	65
1	0:51.809	105.72	33	50	67
7	0:50.653	103.36	32	51	71
2	0:49.263	100.52	33	53	71
3	0:49.187	100.37	33	53	71
6	0:49.161	100.31	33	53	71
9	0:49.145	100.28	34	53	71
5	0:49.133	100.26	35	53	71
10	0:49.085	100.16	34	53	71
4	0:49.075	100.14	34	53	71
8	0:49.007	100.00	34	53	71

GPS Speed (mph) vs Distance (ft) graph showing speed fluctuations over a 3500 ft distance.

AiM Cloud Data Sharing

Integration with RS3A Database

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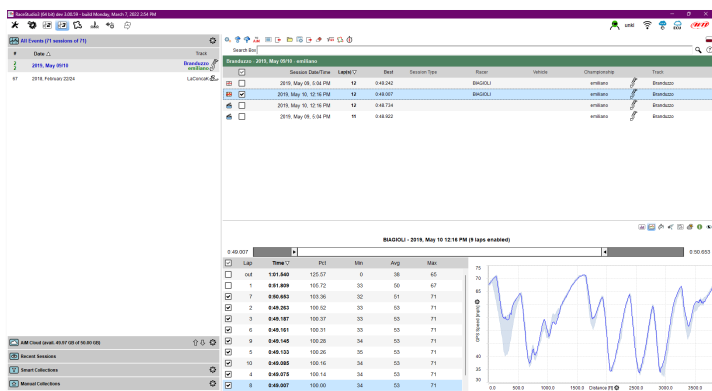
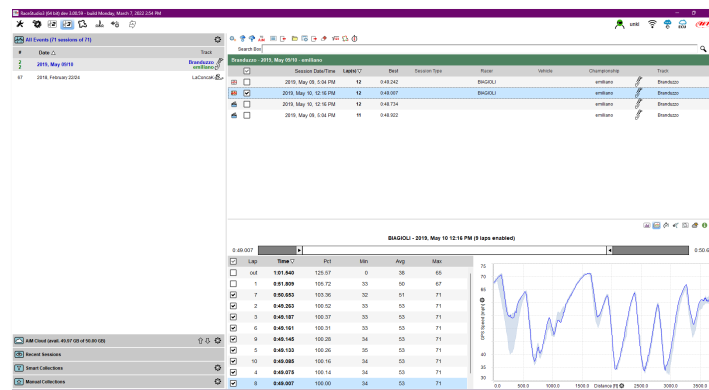


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Integration with RS3A Database



The cloud button highlighted in the left accordion will, upon selection, show the list of all files that have already been shared. It features two arrows, one upward and one downward, that are user interface elements showing the upload or download operation in act. It also features a cogged wheel that is a starting point for a popup menu leading to the AiM Cloud settings.



The two buttons in the top toolbar:

- AiM Cloud settings (also accessible from here)
- Upload command: select a session to copy it into the AiM Cloud

Integration with RS3A Database



To allow users to test the AiM Cloud, AiM provides each user a minimum amount of cloud storage space (20MB) for free. It's enough for all users to experiment and decide if there is value for you.

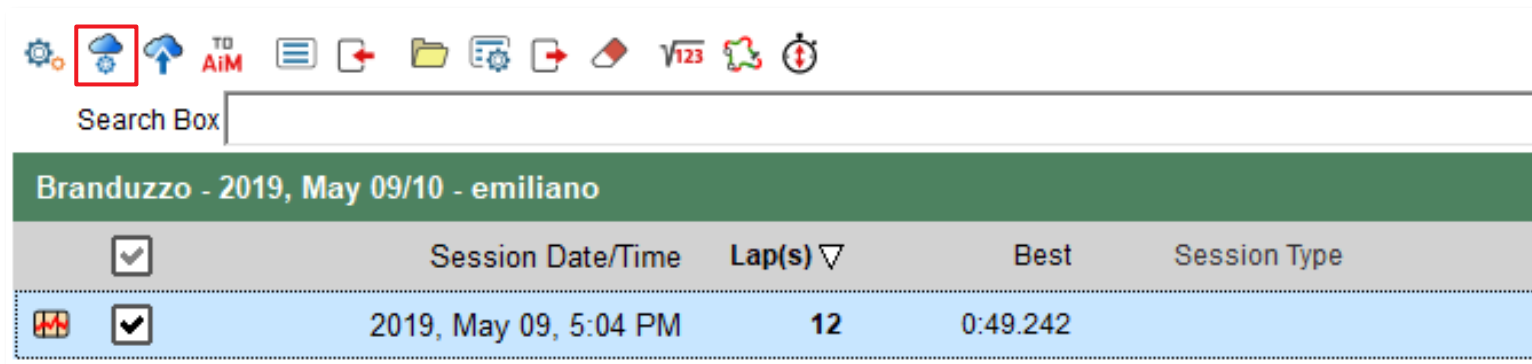


AiM Cloud (avail. 20.00 MB of 20.00 MB)



The First Upload Operation

Let's now move into the main AiM Cloud functions. From your local database, select a session and click the upload button.

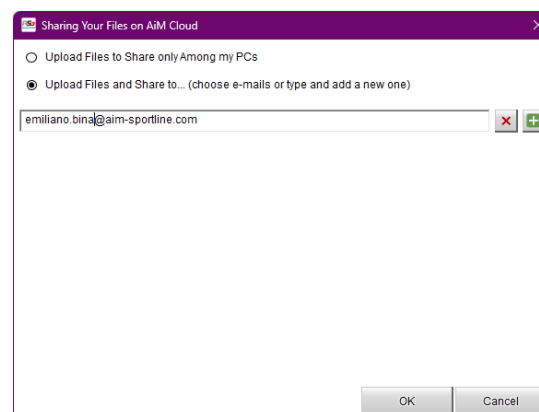
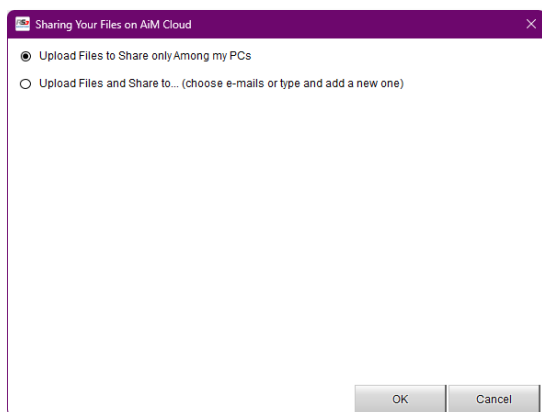


Search Box

Branduzzo - 2019, May 09/10 - emiliano				
☒	Session Date/Time	Lap(s) ▾	Best	Session Type
 ☒	2019, May 09, 5:04 PM	12	0:49.242	

The First Upload Operation

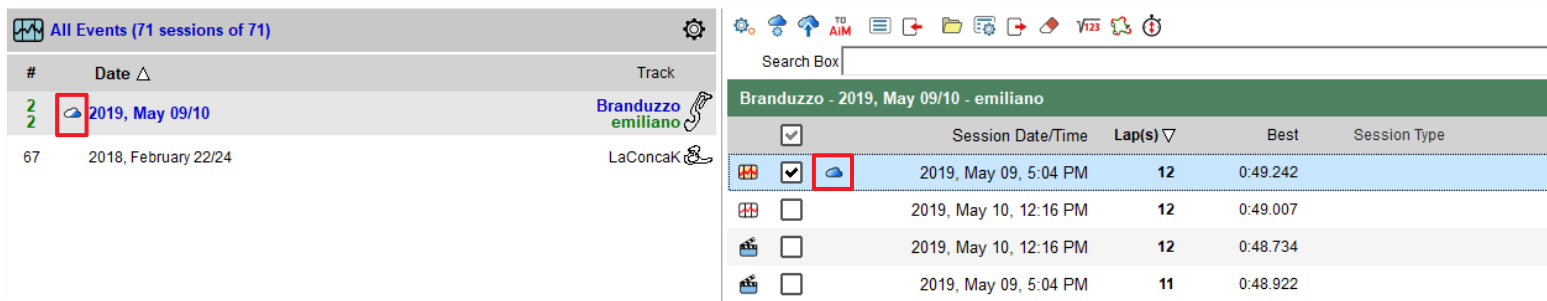
You will be presented a window where RS3 will in effect be telling you: "OK, I'm about to upload a session" but... RS3 asks you to choose if you want to upload it only for yourself (to share only among your different PC's) or if, in parallel, you also want to share it with any friends or racing teammates.



In the second case, enter a valid email address, then click the '+' shaped button and click OK. Users that you choose to share your files with must be AiM Cloud users

The First Upload Operation

When you click on the OK button, the file of the session you selected will be uploaded. Once the file is copied to the AiM Cloud server, the dedicated cloud shaped icons will notify you that the file is both locally on your PC and on the AiM Cloud server.



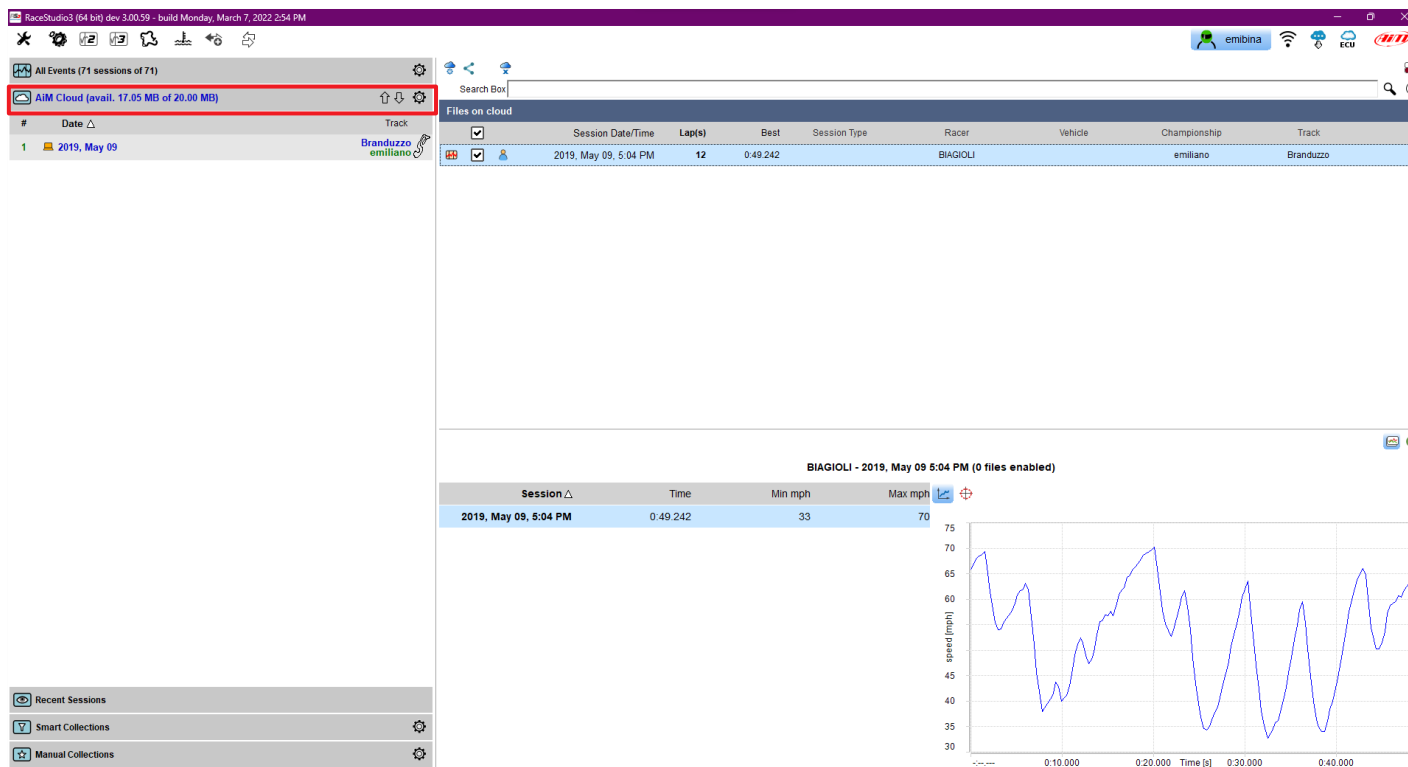
The screenshot displays the AiM Cloud Data Sharing interface. On the left, a table lists events with columns for '#', 'Date', and 'Track'. The first event is '2019, May 09/10' with a cloud icon in the '#' column. The second event is '2018, February 22/24'. The right panel shows a detailed view of the selected session, 'Branduzzo - 2019, May 09/10 - emiliano'. It includes a search box and a table with columns for 'Session Date/Time', 'Lap(s)', 'Best', and 'Session Type'. The first row of the table is highlighted in blue and has a cloud icon in the 'Session Date/Time' column.

#	Date	Track
2	2019, May 09/10	Branduzzo emiliano
67	2018, February 22/24	LaConcaK

Session Date/Time	Lap(s)	Best	Session Type
2019, May 09, 5:04 PM	12	0:49.242	
2019, May 10, 12:16 PM	12	0:49.007	
2019, May 10, 12:16 PM	12	0:48.734	
2019, May 09, 5:04 PM	11	0:48.922	

The First Upload Operation

Selecting the AiM Cloud button in the left accordion you'll see a user interface that is very similar to the main database with a few differences.



The screenshot displays the RaceStudio3 (64 bit) dev 3.00.59 - build Monday, March 7, 2022 2:54 PM interface. The left sidebar shows 'All Events (71 sessions of 71)' and 'AiM Cloud (avail. 17.05 MB of 20.00 MB)' highlighted. The main area shows a table of files on cloud and a speed graph for a session.

#	Date	Track
1	2019, May 09	Branduzzo emiliano

Session	Date/Time	Lap(s)	Best	Session Type	Racer	Vehicle	Championship	Track
☒	2019, May 09, 5:04 PM	12	0:49.242		BIAGIOLI		emiliano	Branduzzo

Session	Time	Min mph	Max mph
2019, May 09, 5:04 PM	0:49.242	33	70

BIAGIOLI - 2019, May 09 5:04 PM (0 files enabled)

speed (mph)

Time [s]

AiM Cloud Data Sharing

The First Upload Operation

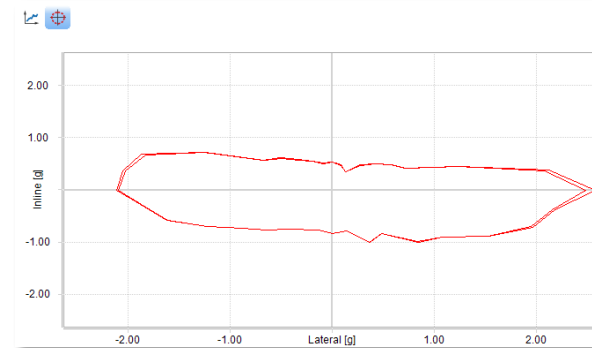
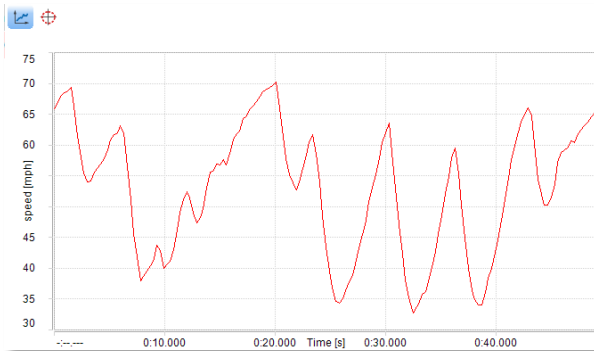
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Cloud Files Preview



There is also a small preview portion of the screen, allowing two different windows.

The first window is depicted in the picture just above here: session date and time, minimum and maximum speed. Also available are speed curves or accelerations diagram.



AiM Cloud Data Sharing

Cloud Files Preview

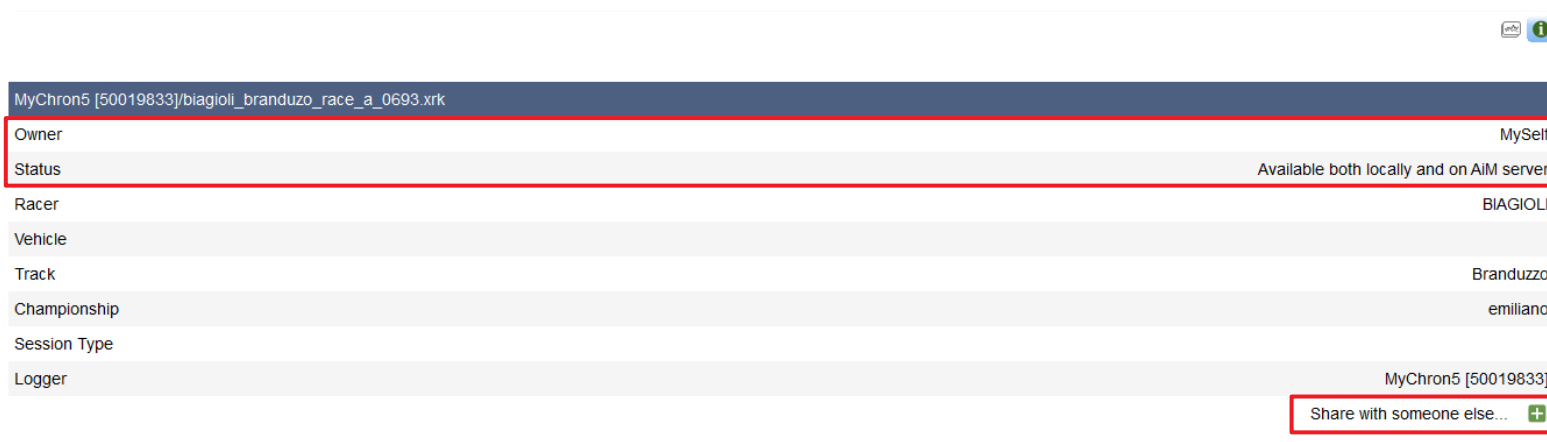
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Cloud Files Preview

If you select the small green 'i' icon in the lower section, you will be presented with a list of all the metadata associated with the file copied on the AiM Cloud server. Pay special attention to the Owner and to the Status fields as shown in the image below.



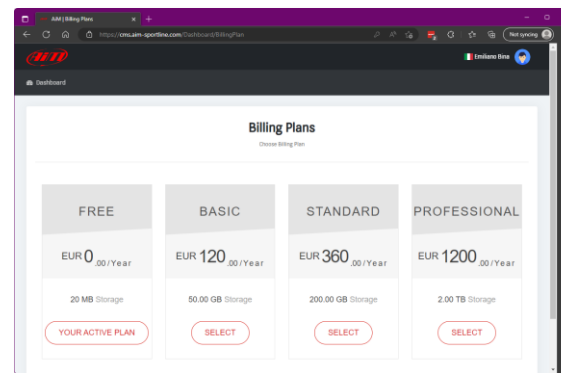
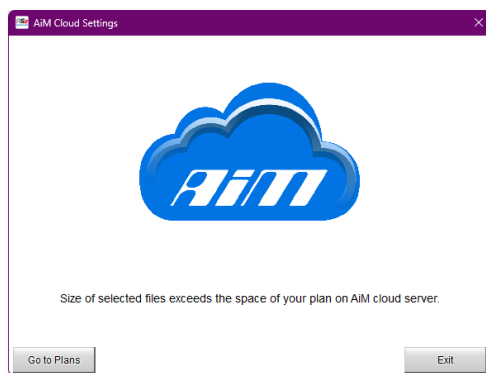
MyChron5 [50019833]/biagioli_branduzo_race_a_0693.xrk	
Owner	MySelf
Status	Available both locally and on AiM server
Racer	BIAGIOLI
Vehicle	
Track	Branduzzo
Championship	emiliano
Session Type	
Logger	MyChron5 [50019833]
Share with someone else... 	

Upload Operations - Space

When you upload or share data files, RS3 displays the usage of your AiM Cloud space in the accordion button.



Moreover, if you try to upload a file that's bigger than your available AiM Cloud space, RS3 prompts you with a window notifying you of the need to acquire more storage if you want to continue.

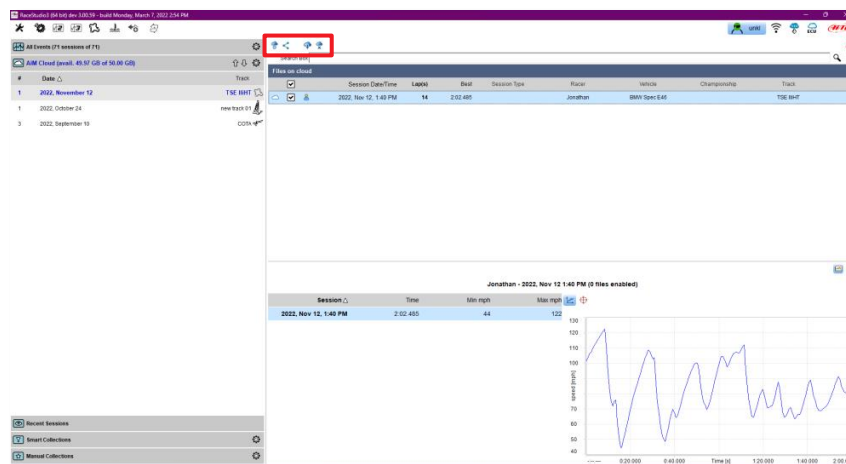


... meanwhile on another PC

When you open RS3 on any other PC and log in, you will see that your database window will look exactly like before, but when you choose the AiM Cloud accordion button on the left, you will see that there are new files are available on the AiM Cloud server.

The icon at the very left of any file row represents the **status** of the file, already described above.

Files are organized 'per event' in a smart calendar in the left accordion and when you select an event, the list of all the files from that event will be shown in the list on the right (with the associated preview).



AiM Cloud Data Sharing

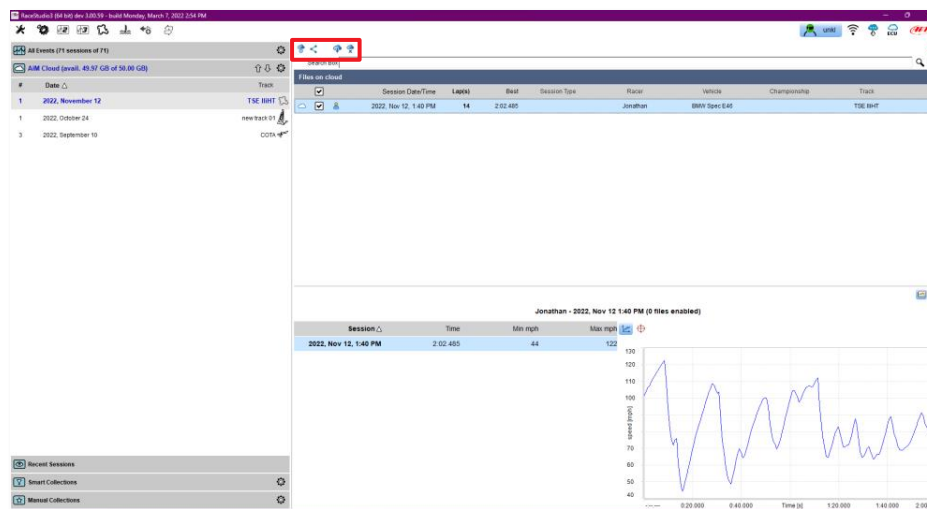
... meanwhile on another PC

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... meanwhile on another PC

The icons in the top toolbar are different for AiM Cloud files, representing all the tasks you can do from here.

- Settings; to change the AiM Cloud setup
- Share; to share selected files with a friend or racing teammate
- Download*; to start the download operation of the file from the AiM Cloud server to your PC
- Delete; to fully delete a file from the AiM Cloud server



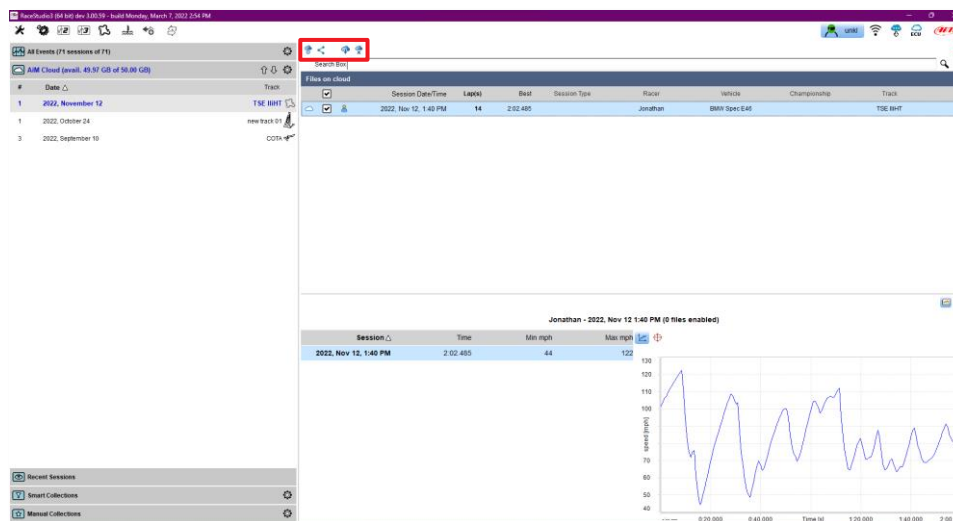
AiM Cloud Data Sharing

... meanwhile on another PC

Download

Where, on this PC, will the file be placed?

The downloaded files will be placed in the same folder as the files downloaded from your AiM devices and they will be following the same download rules for creating and naming subfolders. For example, if you setup your download options to create a subfolder based on 'Vehicle' and to automatically name the file after 'Racer' and 'Session Date', this is the same process that is followed when downloading from the AiM Cloud server.



AiM Cloud Data Sharing

Download

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Sharing Policy

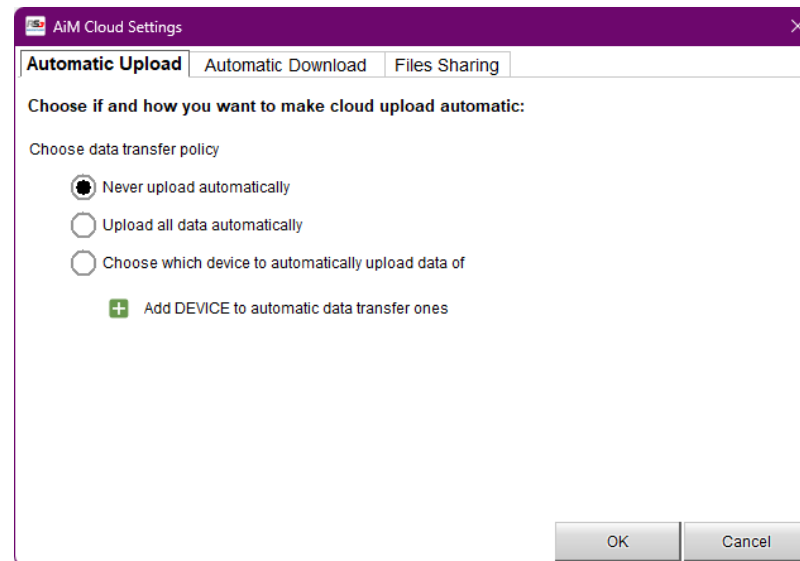
Only data uploaded by you will be consuming your AiM Cloud space. When another user shares a file with you, these files are not using your storage space, only the space of the file creator/owner. Files shared with you will only require storage space on your AiM Cloud drive when you choose to download the files.

If you share a file with another AiM Cloud user and they have not downloaded the file, then you delete the file from your AiM Cloud server, the shared file will disappear from their list. If they already downloaded the file onto their local PC, they will still have access to the file.

Upload Automation

Three possibilities:

- Never upload automatically; RS3 will never upload anything on its own
- Upload all your sessions automatically; in background RS3 will upload till completion (given that you have enough space in your plan)
- Choose the device you want to upload data of



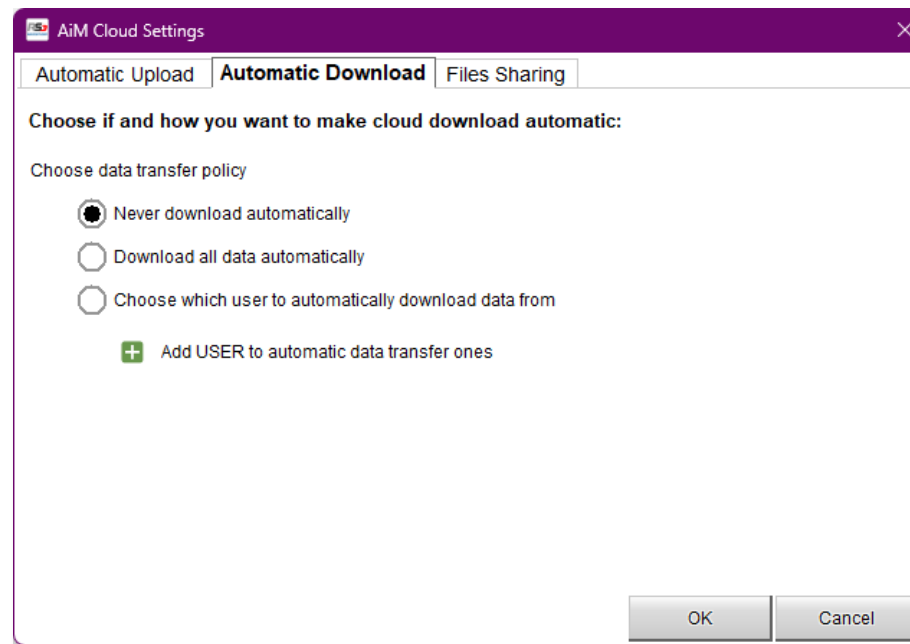
AiM Cloud Data Sharing

Upload Automation

Download Automation

Three possibilities:

- Never download automatically
- Download all files automatically
- Choose which user to automatically download data from

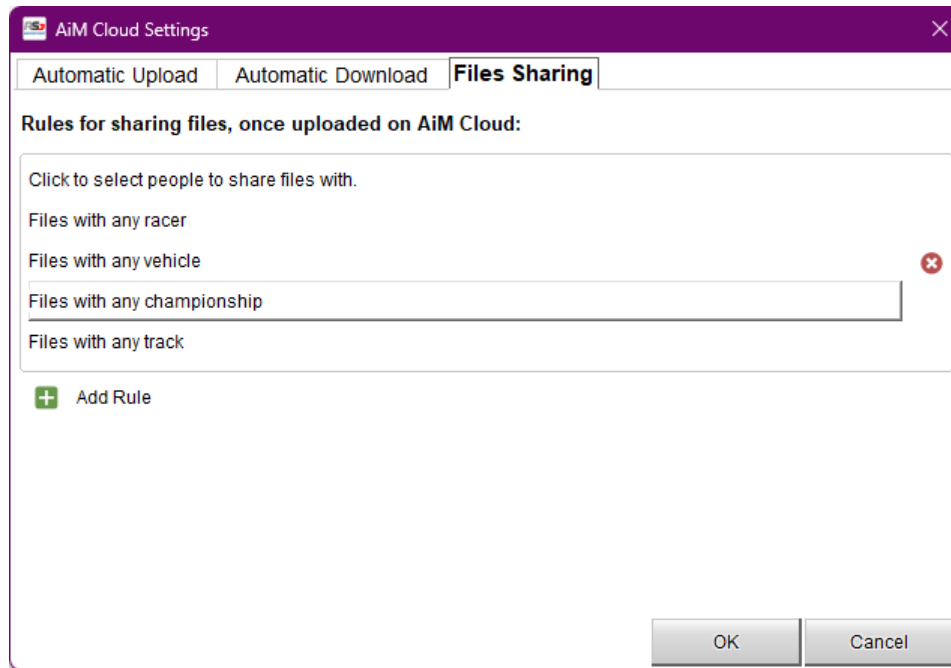


AiM Cloud Data Sharing

Download Automation

Sharing Automation

Once files have been uploaded to the AiM Cloud server, you can decide to automatically share the files with any friend or racing teammates. For example, if you upload files from several racers, vehicles, championships, tracks, etc you can set the AiM Cloud settings to automatically share files according to user defined rules.



Other Cloud Services

In past years we have seen users installing RS3 into a cloud shared folder. Cloud services are appropriate for sharing final data or results of a file system, but not program related files as this often will create problems to the working of RS3 itself. That's why we advise against our users doing this.

RS3 lives upon the synchronization of its databases and the files in its installation folder. Data need to match. 3rd party cloud services have a process constantly running on PC's that copy files from one machine to another. This process can temporarily lock files while the copy is in progress and when this happens, RS3 may incorrectly synchronize configurations, improperly import analysis sessions, and more if the file is locked when RS3 attempts to access the file.

These processes can move files and create unpaired sets of data and databases among different machines. These failures can temporarily lock RS3 databases, and this forbids a correct RS3 start.

'AiM Cloud' was created to avoid all these bad possibilities.

Live Race Studio Demonstration



AIM Data Guy

All Events (241 sessions of 241)

#	Date	Track
1	2022, October 15	TSMF 1.7 CT
1	2022, October 06	Vir Full
1	2022, September 28	VIR Full Alt
2	2022, September 13	VIR Full Alt
18	2022, September 09/10	COTA
1	2022, September 10	COTA
1	2022, August 29	Watkins Glen
2	2022, August 11	VIR Full Alt
6	2022, August 11	Vir Full
0	2022, July 29/30	Dirt City MP
1	2022, July 02	Road America
1	2022, May 08	SARRC Double Regional ...
3	2022, April 23	Watkins Glen

AiM Cloud (avail. 49.43 GB of 50.00 GB)

Recent Sessions

Smart Collections

Manual Collections

Search Box

Vir Full - 2022, October 06 - testes

Session Date/Time	Lap(s)	Best	Session Type	Racer	Vehicle	Championship	Track
2022, Oct 06, 4:59 PM	4	2:01.133	Test		TA2 Mustang ...	testes	Vir Full

Vir Full - 2022, Oct 06 4:59 PM (2 laps enabled)

2:01.133 2:06.842

Lap	Time
in	2:23.939
1	2:06.842
2	2:01.133
out	0:30.636

GPS Speed [mph]

Distance [ft]

2

Trans Am

COPE

4700

100

AiM Cloud Data Sharing

Live Race Studio Demonstration

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LearnFast™ E-Training Videos



Currently **218** Videos and Growing

YouTube www.youtube.com/aimdata

'AiM Cloud' Data Sharing
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Host:
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AIM Sports – Training Manager

Co-Host:
Emiliano Bina
AIM-Sportline – Software Lead

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User Defined Reference Laps
You Asked For It, Now You Get It!

Host:
Roger Caddell
AIM Sports – Training Manager

Co-Host:
Emiliano Bina
AIM-Sportline – Software Lead

aimsports.com Tuesday October 25th, 2022 LearnFast™

Webinar Series
Bringing Data Support and Training to You

Data Download Options
In Race Studio 3

March 31st, 2020

www.aimsports.com 1.800.718.9090

- All New 2020 - 22 Live Webinar Videos
 - Software Updates with Race Studio 3
 - Pre-Calculated Gear Position Function
 - Configuring WiFi Communication
 - Customizing AiM Device Logos
 - Race Studio 3 Basic Configuration - Part 1
 - Race Studio 3 Basic Configuration - Part 2
 - **I Have Downloaded my Data, Now What - Part 1*
 - **I Have Downloaded my Data, Now What - Part 2*
 - GPS Lap Insert
 - Data Views
 - Measure Units
 - Sort Channels
 - Test Properties
 - Per Lap Color
 - Export Tests
 - Channel Reports
 - Setting Time
 - Track Mapping
 - Selection Criteria
 - Sensor Calibration
 - Conditional Alarms
 - Gear Position
 - Firmware Update
 - Solo Configuration
 - Transmit Tracks
 - Gps Manager Overview
 - New GPS Track
 - Webinars
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Additional Materials

LearnFast™ E-Training Videos

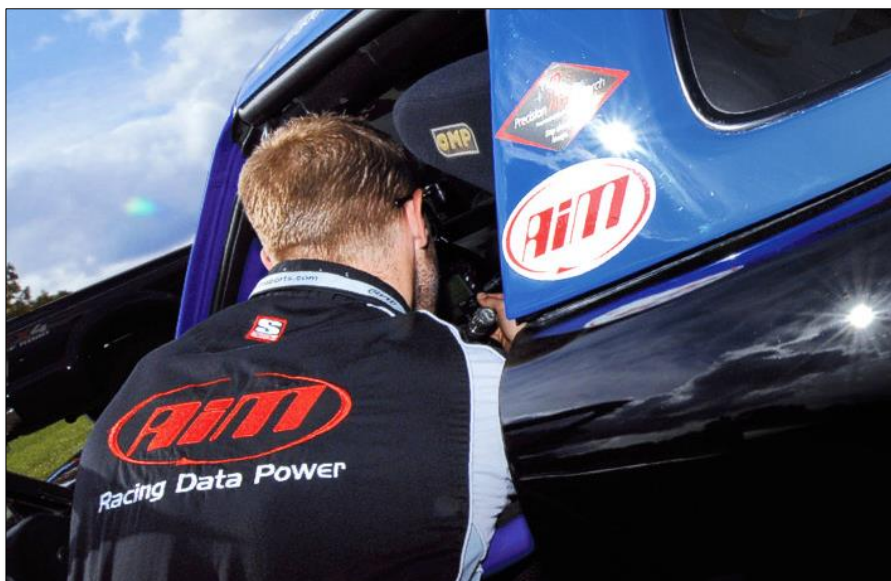
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Customer Support



AiM Sports Technical Support Staff Regularly
Attend Races and Other Events

Look For Us At An Event Near You
Or Call Us At **800.718.9090**



Customer Support

At An Event Near You!

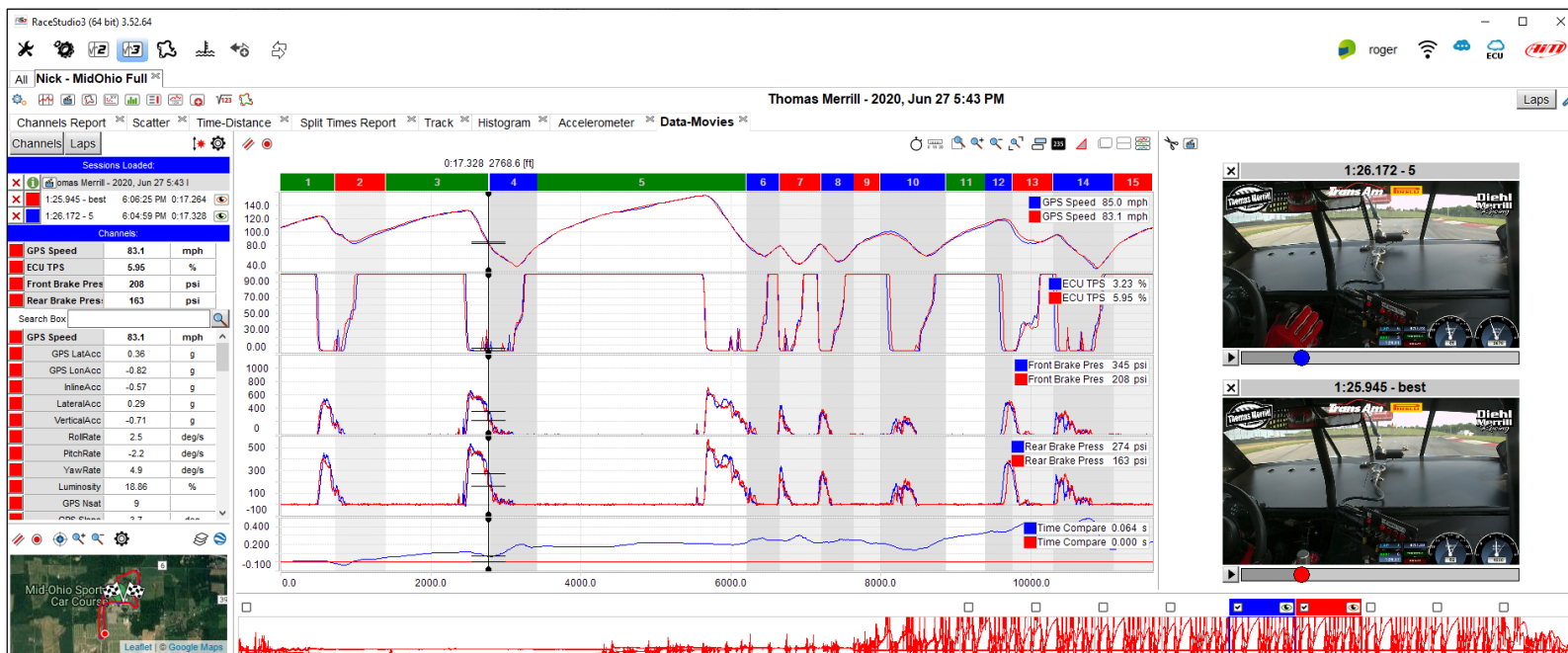
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Next AiM Sports Webinar

Jan 31st, 2023 – Last Tuesday of Each Month



Host:

Roger Caddell

AiM Sports - National Training Manager

Co-Host:

TBD

TBD

Next Webinar: Tuesday January 31st, 2023 - 10:00am Pac/1:00pm East

Next Webinar

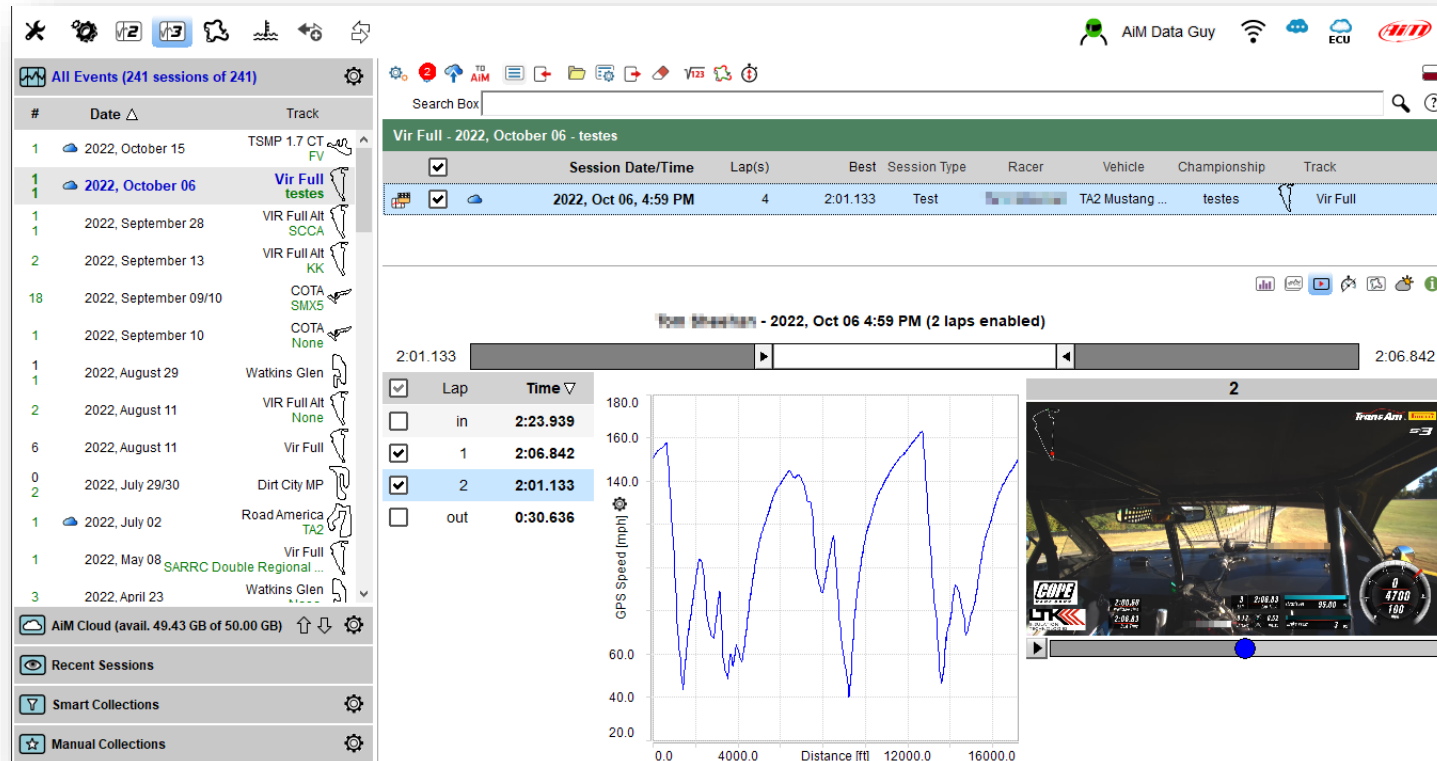
Last Tuesday of Each Month

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Tuesday November 29th, 2022

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