

An aerial, high-angle view of a baseball stadium at night. The stadium is illuminated, showing the green field, the brown infield, and the seating areas. The title 'TRACKMAN' is written in large, white, sans-serif capital letters across the center of the image. Below it, the word 'BASEBALL' is written in smaller, orange, sans-serif capital letters.

TRACKMAN
BASEBALL

V3 External Video – Post-Game

What?

- Post-game clipping application that clips game length video using timestamps from our ball tracking data
- Clips every pitch of the game from each video angle
- Up to 6 different camera angles
 - Centerfield
 - High Home
 - Pitcher 1B
 - Pitcher 3B
 - Batter 1B
 - Batter 3B

Who?

- This solution is geared towards Amateur and lower level NCAA customers and possibly MLB customers.
- Premium version will be solution for upper levels of NCAA and MLB customers.

Why?

- Video is increasingly becoming an essential part of baseball. Specifically when it comes to player development, scouting, and player identification.
- There are several companies that specialize in video and who use our ball tracking data as a way to clip videos.
- Keep our customers in the TM ecosystem

V3 ExVid Use Cases

- Current

- Diamond Solutions Video Package
- PBR D2C Partnership

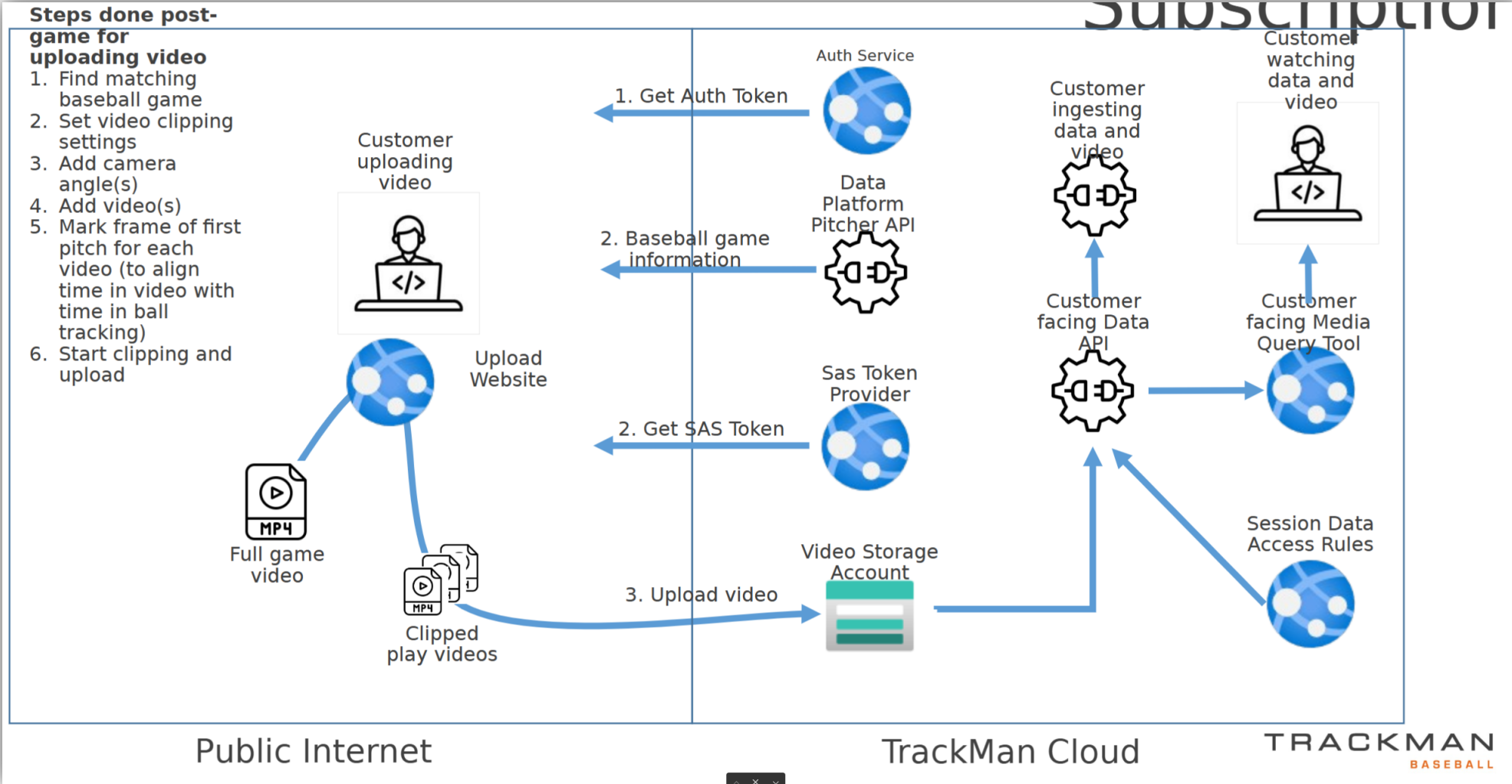
- Other

- Player development, scouting, identification, etc.
- NCAA camps
- Amateur events (PG, PBR)

V3 ExVid – Post-Game Process

- At a high level the following steps are performed by a customer to operate and make use of the External Video Application
 - Customer either manually sets up 6 cameras around the field OR is able to use existing permanent cameras (Trackman is not providing cameras)
 - Customer tags game on a V3 system (Backfield or Stadium)
 - Customer accesses game video via method of their choosing. i.e. For permanent cameras they may have the video files go to a location on their internal network. For cameras that they manually setup, they may have to take an SD card from the camera and download onto their PC.
 - Customer opens up the External Video Application, searches for the game session that was tagged, uploads game video into the app, scrubs the video to select ‘clipping moments’, and guides the tool through the clipping process
 - Video can then be accessed through the post session API and at a date TBD this video will be available within the MQT.

V3 ExVid – System Architecture



V3 ExVid – Video Clip Samples



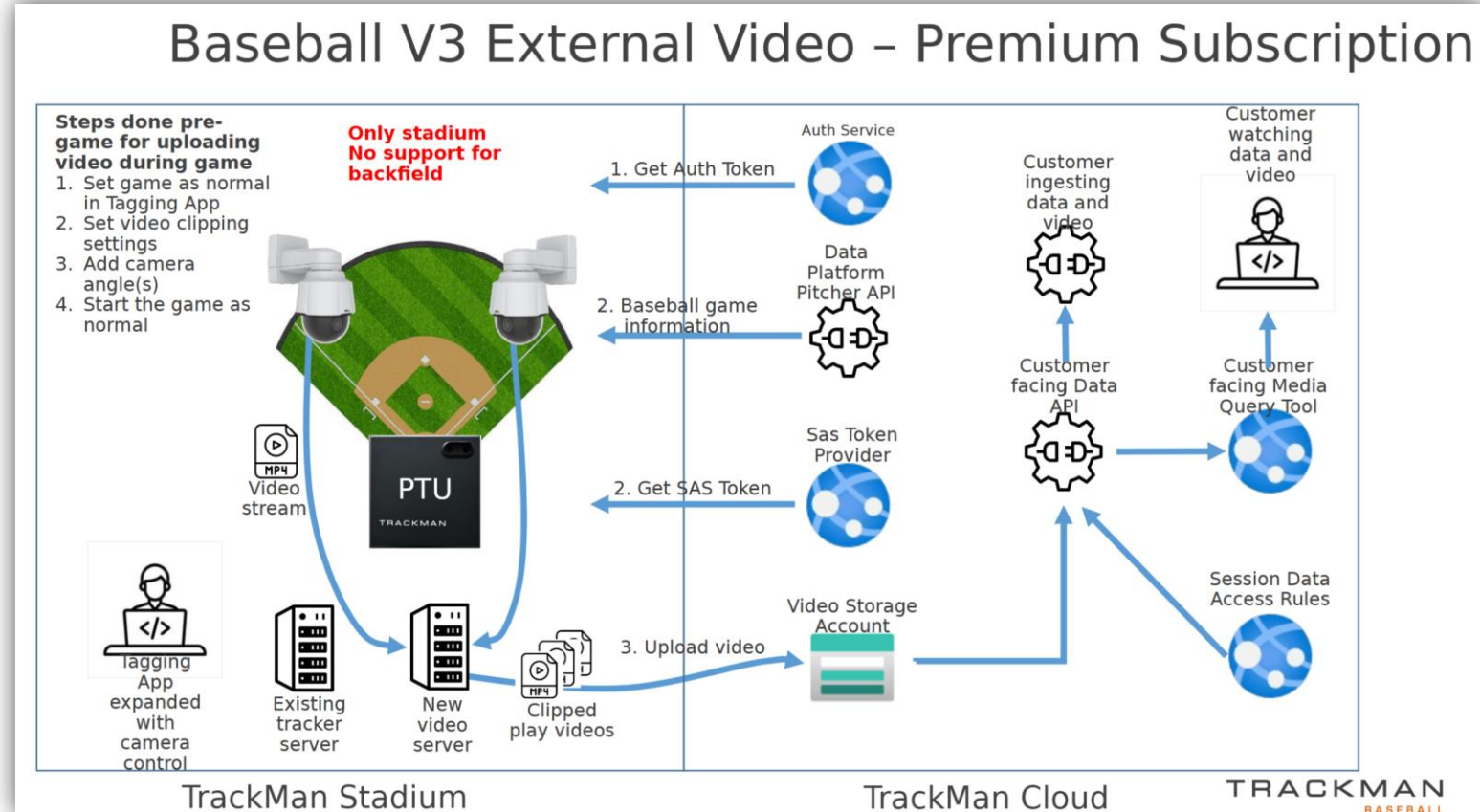
U of Oklahoma



Diamond Solutions –
Medellin, Colombia

V3 ExVid - Future

- The future of External Video includes a live in game clipping application that will require minimal user interaction.
- Plans also include a “V3-less” tagging application to allow for very accurate “timestamp/clipping moments” in scenarios where a V3 isn’t accessible. (Away teams)
- Enhanced video clip viewing experience through the MQT.





Application Screenshots

Home Screen

The screenshot shows the application's home screen. At the top, there is a navigation bar with 'External Video', 'Home', and 'Past Session' tabs. On the right side of the navigation bar, it says 'All videos uploaded' with a checkmark, a gear icon, and a red circle icon.

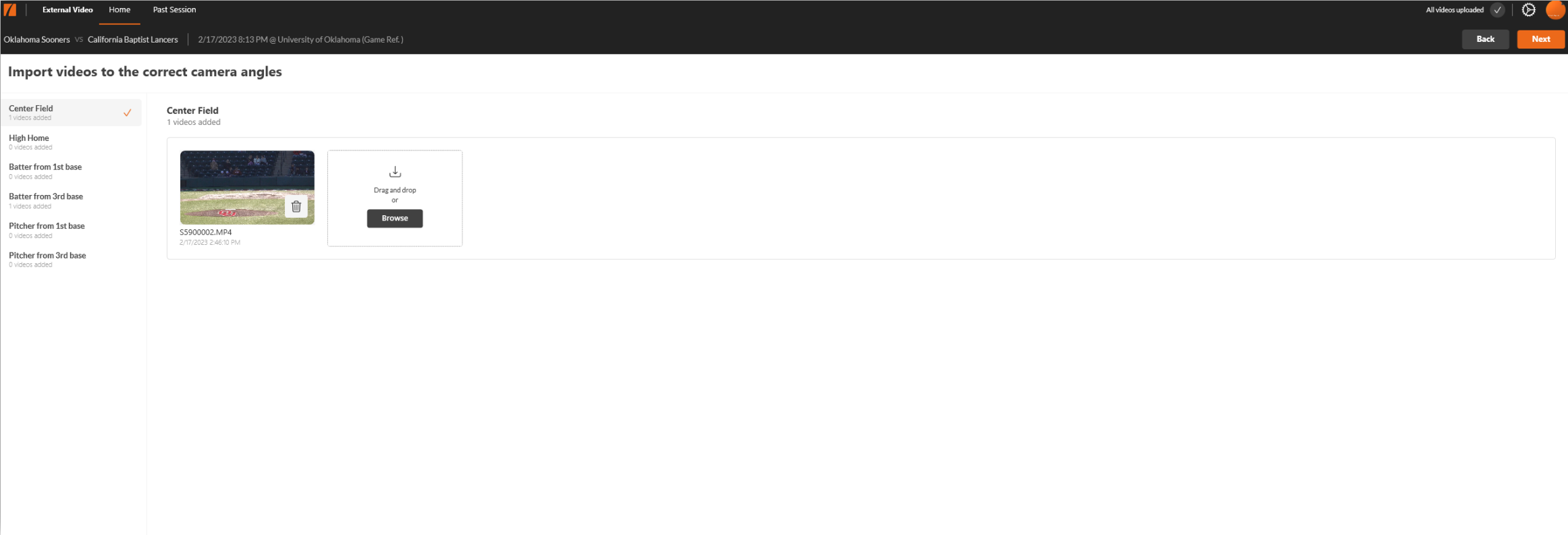
Below the navigation bar, there is a welcome message: 'Welcome Danny!' followed by the text 'Start or continue any of the session you have available.' Below this is a search bar with several filters: 'University of Oklahoma' (dropdown), 'L Dale Mitchell Park' (dropdown), '13-Feb-23' (calendar icon), 'to', '18-Feb-23' (calendar icon), and a 'Search' button with an 'X' icon. Below the search bar is a 'Refetch venues' button.

Below the search bar, there is a section titled 'All sessions' which contains a table with the following data:

Teams	Date	Venue	Field	Status	Reference
Oklahoma Sooners vs California Baptist Lancers	2/17/2023 8:13 PM	University of Oklahoma	L Dale Mitchell Park	Finished	 

Application Screenshots

Game Video Upload Screen



Application Screenshots

Video Scrubbing Screen

External Video Home Past Session All videos uploaded ✓

Oklahoma Sooners vs California Baptist Lancers | 2/17/2023 8:13 PM @ University of Oklahoma (Game Ref.) Back Clip

Camera Selection

Mark moments to the selected angle

Play #	Inning	Pitcher	Batter	Pitch call/hit type	Play result	Hit	Pitch Release	Cross Plate
1	1	Davis, Kale	Garcia, Dusty	FL	Undefined	+	+	+
2	1	Davis, Kale	Garcia, Dusty	FL	Undefined	+	+	+
3	1	Davis, Kale	Garcia, Dusty	FL	Undefined	+	+	+
4	1	Davis, Kale	Garcia, Dusty	FL	Undefined	+	+	+
5	1	Davis, Kale	Skipworth, Jake	FL	Undefined	+	+	+
6	1	Davis, Kale	Skipworth, Jake	FL	Undefined	+	+	+
7	1	Davis, Kale	Skipworth, Jake	FL	Out	+	+	+
8	1	Davis, Kale	Carpentier Jr, Michael	FL	Undefined	+	+	+
9	1	Davis, Kale	Carpentier Jr, Michael	FL	Single	+	+	+
10	1	Davis, Kale	Simon, Mitch	FL	Undefined	+	+	+
11	1	Davis, Kale	Simon, Mitch	FL	Undefined	+	+	+
12	1	Davis, Kale	Simon, Mitch	FL	Sacrifice	+	+	+
13	1	Davis, Kale	Chavez, Josiah	FL	Out	+	+	+
14	1	Mattox, Seth	Spikerman, John	FL	Undefined	+	+	+
15	1	Mattox, Seth	Spikerman, John	FL	Undefined	+	+	+

Camera angles

- Center Field
- High Home
- Batter from 1st base
- Batter from 3rd base
- Pitcher from 1st base
- Pitcher from 3rd base

Speed: x1.0

Application Screenshots

Clipping Completion Screen

The screenshot displays a web application interface for video clipping. At the top, a navigation bar includes 'External Video', 'Home', and 'Past Session'. The main header shows the game context: 'Oklahoma Sooners vs California Baptist Lancers' on '2/17/2023 8:13 PM @ University of Oklahoma (Game Ref.)'. A 'Done' button is visible in the top right corner.

The main content area is titled 'Generated video clips' and includes a sub-header: 'Per camera angle, are you able to see all the clips that are generated according to the marked plays. If any is wrong, go back to edit the assigned plays.' Below this, a sidebar on the left lists clip categories: 'Center Field' (14 clips), 'High Home' (0 clips), 'Batter from 1st base' (0 clips), 'Batter from 3rd base' (23 clips), 'Pitcher from 1st base' (0 clips), and 'Pitcher from 3rd base' (0 clips). A total of '37 total clips generated' is shown, along with a file path: 'C:\Users\Danny\AppData\Local\ExternalVideo.Client\clips\1a6143fc3-7ab3-49c7-a1d4-6abd073483c2'.

The central video player shows a baseball pitcher in a white uniform on the mound, with a batter and catcher in grey uniforms ready for the pitch. The video player includes a progress bar, playback controls (play, pause, stop, volume), and a speed control set to 'x1.0'. Below the video player, a 'Now playing' indicator shows '1 / 14' clips.

On the right side, a metadata panel displays the following information: 'Play no. 1', 'Inning 1', 'Ball Count 0', 'Strike Count 0', 'Pitcher Davis, Kale', 'Batter Garcia, Dusty', 'Pitch call -', 'Plate location height -', 'Plate location side -', 'Pitch type Fastball', 'Hit type Undefined', 'Exit velocity -', 'Launch angle Center Field', and 'Play Result'.