SportsPip Pipeline Metadata

**Strapi Coach General Metadata**

* Name and contact information

**Strapi Coach Permissions**

* Add a player (Y/N)
* Add a coach (Y/N)
* Add a scheduled event (Y/N)
* Add an informational schedule (no Pip created) (Y/N)

**Strapi Player General Metadata**

* Name and contact information

**Strapi Player Permissions**

* Add a scheduled event (Y/N)
* Add an informational schedule (no Pip created) (Y/N)

**Strapi Roster Metadata**

* Coaches on the roster
* Players on the roster
* Roster category information
* Player uniform numbers
* Player designated positions

**Strapi Schedule Stage Event Metadata**

* A unique ID for the PIP
* Some kind of token that can be used for identification
* PIP start and end date and time
* Registered user name and ID of the author
* The GPS location of the event (created during event)
* Category designation (sport, level, program)
* Type of PIP (scheduled or unscheduled)
* The location of the event – home or away
* Is this a multiple user event
* Roles that can add content to the PIP?
* Roles that can request content from the PIP?
* Are there any priorities – is IP Camera streaming more important than iPad or iPhone clips?

**Schedule Stage Constraints**

* Limits to the file size of the PIP
* Limits to the duration of the longest video file
* Limits to the frame rate or resolution

**Schedule Stage Permissions**

* Control who is allowed to schedule a PIP
* Limit time of day the PIP can be created
* Limit the time of day the PIP can be uploaded or downloaded
* Limit the activity during critical events for capacity control

**Schedule Stage Notifications**

* Notify an individual when a PIP is added
* Notify a group when a PIP is added
* Notify an individual or group based on other events
* Send notification to end user device when transfer is complete
* Can we display an accurate progress indicator on the mobile device or server console?

**Assemble Stage Metadata**

* Device ID of connected devices (created during event)
* Software version of connected devices (created during event)
* The IP or MAC address (created during event)

**Assemble Stage Security Authentication and Authorization**

* Control who can create a PIP on the server
* Control who can start an IP camera recording
* Control who can create public or private PIP
* Control who can download a PIP to Win10 editor
* Control who can download a PIP to iPad editor
* Control who can stream a video file
* Control who can add tagging data to the PIP
* Was the file encrypted when transferred (WPA2)?

**Assemble Stage Timecodes**

* Need to work with several clocks concurrently and be able to establish a relationship between them
* UTC clock time, running game clock time, clock time remaining in match

**Assemble Stage Usage Data Collected and Reports**

* Add category usage information to logs to allow some type of department chargeback reporting
* Track how long it takes for a PIP to upload from every endpoint and calculate transfer rate
* Use to isolate problem devices or locations for performance tuning
* Did the complete file get transferred? Use a checksum to compare created and delivered
* Restart transfer if it fails in the middle. Did it restart successfully?
* If unable to complete once due to unavailability, will it try again the next time the device is in the network range?
* Report what % of transfers fail? Identify what causes them to fail. Who is creating them when they fail? Compare the size and other attributes of those that fail with those that complete.
* Record what network devices are used in the transfer? Might be useful when multiple access points are available.
* Capture information on the device type that is used to contribute.

**Assemble Stage Priority**

* Does one user have higher priority than another?
* Are there any rules on how this should work?

**Assemble Stage Live Tagging**

* Added to provide additional search options, tags could be predefined or user defined

**Streaming Stage Metadata**

* Device ID of connected devices (created during event)
* Software version of connected devices (created during event)
* The IP or MAC address (created during event)

**Streaming Stage Security Authentication and Authorization**

* Control who can download a PIP to Win10 editor
* Control who can download a PIP to iPad editor
* Control who can stream a video file
* Control who can add tagging data to the PIP
* Was the file encrypted when transferred (WPA2)?

**Move Stage Metadata**

* Transfer target URI location
* Connection string for secure transfers where needed
* Allow manual and automated moves (Y/N)
* Start time of transfer
* End time of transfer
* Transfer rate
* Transfer completed successfully using checksum (Y/N)
* Reason a transfer failed

**Question**

* Is it possible to send individual files when transferring the Pip zip file? Or is it just a block/sector type of transfer?

**Edit Stage Metadata**

* PIP download dates
* PIP upload dates
* Name of all “Tagging” files
* Video file resolution (4K, 1080P, 720P, other)

**Edit Stage Permissions**

* User ID role authorized to download PIP (Y/N)
* User ID role authorized to upload PIP (Y/N)

**Reduce Stage Metadata**

* Resolution and frame rate requirements are specified. From 4K to 2K to 1080P to 720P to 480P
* BIT rate and compression quality settings if available
* Naming conventions for the various implementations

**Share Metadata**

* Connection string for secure transfers where needed
* Contact information for target users
* PIP authorized to share (Y/N)
* Coach authorized to share (Y/N)
* Azure server capacity available for sharing?
* Date PIP uploaded
* File size transferred

**Share Reporting**

* PIP download by target user
* Date downloaded
* Streaming video views
* Data on streaming video users where available

**Archive Metadata**

* Expiration date for PIP
* Delete when expired?
* Backup PIP to NAS for availability (Y/N)
* Restore PIP
* Coach has permission to restore PIP (Y/N)