Scoreline.com API Learnosity Test

Imagine you work with Scoreline.com, an online service aiming to be the premier provider of rich statistics for the sporting world. Scoreline have a vision to record and report statistics for every event on the sporting calendar. They’ve built a following of sporting clubs which use Scoreline’s apps to track key statistics and results for their respective competitions.

It’s time for Scoreline to expand. They’re building a public API which will be used by Scoreline apps and other third parties to submit and retrieve results and statistics for a variety of different sports.

Please outline a design for a public API that supports at least the following operations:

* Submit results data for a variety of different sports.
* Retrieve results data for the different sports.

Consider the following:

* The results data for different sports varies a lot (compare team sports and individual

sports, for example). We’d like to see how your design caters to these differences.

* It’s useful to retrieve a summary or list of results according to a set of filters. We’d like to

see how your API supports search parameters and/or other ways to retrieve results.

* You may design the API as RESTful endpoints, JSON or XML web services, SDK class interfaces, UML interfaces or any other suitable approach. Include samples of the input

and output data.

We’re interested in the choices you make about functionality and data. Please document any important assumptions you make along the way. Pick sports that you know well, be creative and surprise us.

**Response**

To be truly successful an API must be treated the same as any software product and it must support not only business strategies but primarily focus on the customer-developer experience whilst ensuring a suitable revenue stream.  
  
To satisfy developers the API must be intuitive, fast and reliable with valuable and trustworthy data. Part os the DX (developer experience) is based on the 3:30:3 rule, which breaks down to these three simple rules.

1. The API purpose should be understood within 3 seconds.

2. The endpoint should be identifiable within 30 seconds.

3. The developer should be able to create and account and make a call within 3 minutes.

Other important DX considerations include, but not limited to, a sandbox environment for testing, and a developer portal. The portal should show explicitly all API methods, parameters and responses, as well input and output formats should be articulated alongside authorisation requirements, such as an API Key and how to receive it and lastly terms agreement.

In addition we should be ensuring that there is provision for troubleshooting support via a forum, status page and if possible a console for technical support.

Naturally including social media support, email, blog and a newsletter option would add to the overall experience.  
  
However, despite some significant requirements we will be soley focused on the various methods available.

When designing the API a great deal of research was undertaken to fully understand the critical data needs and wants of the potential end-users, as such a certain amount of familiarity was presumed to pre exist, where the familiarity did not exist it was modelled from other similar services.

Most responses will be available in XML and JSON, we will provide examples of some sports in both XML and JSON.

End users will need to register for an API key and details such as Application name and function and contact details will be required. For public access there are usage limits preset according to the data being used, alternatively there are paid tiers for heavy use and for when real-time data requirements become important. A payment schedule if available upon registration.

All access is via SSL and where it is detected that access has originated from non-SSL there will be a hard error provided, thus ensuring encrypted communications.

If a developer is to use the sandbox environment then each sport will be selectable from a droplist from which a list of methods will be exposed. Each method will have the parameters, values, data type and a description, allowing for a quick test and an understanding of what is required if making the API call via HTTP.

As an example we will use the following sports and represent the Request URI, Request Headers, Response Status Code and naturally the response data ( JOSN or XML). In saying this JSON will be pushed as the optimum output.

Ascertaining what resources to enable I took the widely used approach of stating the vaious resources as NOUNS, and as such there are a lot of resources covered off which is beyond the scope of this particular introduction document.

Examples of resources used butnot covered in this document include but not limited to events, tickets, users, groups etc.

All resources support versions to enable backward compatibility and reducing the risk that changes will impact end users.

Not all resources fully support CRUD and the reason is so that we protect certain implementation details and can ensure that valuable data has integrity through governance.

Filtering is supported through query params.  
  
Sorting is provided at certain resources where it makes sense to do so.

Filed Limiting is supported via query params applied with a value of a csv string of required output fields, thus allowing end users to optimise their bandwidth usage.

In addition we will support common resource aliases.

HATEOAS is not currently supported

Example resources are specifically selected sports:

**Rugby League**

**Nascar Racing**

1. **Rugby League**  
Methods:

* Get: Season Timetable - unfiltered
* Get: Games Results - filtered
* Post: Games Results
* Get: Standings - filtered

Get Season Timetable

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Method | Name | Endpoint | Description | Rate Limits |
| GET | Season Timetable | Ver3/:year/season:format | Obtain timetable for season given the year and response data type | 3000 p/d |
| Parameters | Values | Data Type | Description | |
| :year | 2016 | num | Season year | |
| :format | json/xml | String | Output format | |
| Request Headers | | | | |
| X-Originating-Ip: 101.176.192.70 | | | | |
| Request URI | | | | |
| http://api.scoreline.com.au/ver3/rugby/2016/season.json?api\_key=nde7czs79qkhyvrx8bd8j48n | | | | |
| Response Status | | | | |
| 200 OK | | | | |
| Response Headers | | | | |
| Accept-Ranges: bytes | | | | |
| Cache-Control: public, must-revalidate, max-age=2 | | | | |
| Content-Type: application/json | | | | |
| Date: Sun, 17 Jul 2016 04:16:46 GMT | | | | |
| Etag: "7b98b5d55a39491c52eff40ed67e31e9" | | | | |
| Last-Modified: Fri, 15 Apr 2016 00:27:25 GMT | | | | |
| X-Rate-Limit-Limit: 3000 | | | | |
| X-Rate-Limit-Remaining: 2798 | | | | |
| Response Body | | | | |
| {  "id": "627d64e0-74ee-43d4-8710-203ba3026170",  "number": 8,  "games": [{  "id": "f0efe768-4125-4756-ad86-4214512432e1",  "scheduled": "2016-08-28T00:25:00+00:00",  "home": "eels",  "away": "sharks",  "status": "scheduled",  "venue": {  "id": "5295c1b7-c85c-49cb-9569-1707c65324e5",  "name": "ANZ Stadium",  "city": "Homebush",  "state": "NSW",  "capacity": 83500,  "surface": "grass",  "type": "outdoor",  "zip": "2140",  "address": "Edwin Flack Ave, Sydney Olympic Park NSW 2127",  "website": "www.anzstadium.com.au"  },  "broadcast": {  "network": "NINE",  },  "bye\_week": ["panthers", "roosters"]  },  { "id": "f0efe768-4125-4756-ad86-4214512432e1",  "scheduled": "2016-09-12T00:25:00+00:00",  "home": "titans",  "away": "broncos",  "status": "scheduled",  "venue": {  "id": "5295c1b7-c85c-49cb-9569-1707c65324e5",  "name": "UOW Jubilee Oval, Sydney",  "city": "Carlton",  "state": "NSW",  "capacity": 20500,  "surface": "grass",  "type": "outdoor",  "zip": "2037",  "address": "2 Northcoate Avenue, Glebe NSW 2037",  "website": ""  },  "broadcast": {  "network": "NINE",  },  "bye\_week": ["panthers", "roosters"]  },  {...},  {...},  {...},  ]  } | | | | |

Get Games Results

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Method | Name | Endpoint | Description | Rate Limits |
| GET | Match Statistics | Ver3/:year/:round/:played\_date/game:format | Obtain match statistics for completed games using year, round and date | 1000 p/d |
| Parameters | Values | Data Type | Description | |
| :year | 2016 | Num | Season year | |
| :round | 19 | Num | Round | |
| :played\_date | 15-07-2016 | Date | Date game played | |
| :format | json/xml | String | Output format | |
| Request Headers | | | | |
| X-Originating-Ip: 101.176.192.70 | | | | |
| Request URI | | | | |
| http://api.scoreline.com.au/ver3/rugby/2016/19/15072016/game.json?api\_key=nde7czs79qkhyvrx8bd8j48n | | | | |
| Response Status | | | | |
| 200 OK | | | | |
| Response Headers | | | | |
| Accept-Ranges: bytes | | | | |
| Cache-Control: public, must-revalidate, max-age=2 | | | | |
| Content-Type: application/json | | | | |
| Date: Sun, 17 Jul 2016 04:16:46 GMT | | | | |
| Etag: "7b98b5d55a39491c52eff40ed67e31e9" | | | | |
| Last-Modified: Fri, 15 Apr 2016 00:27:25 GMT | | | | |
| X-Rate-Limit-Limit: 1000 | | | | |
| X-Rate-Limit-Remaining: 998 | | | | |
| Response Body | | | | |
| {  "id": "718a4f52-c6af-4080-b955-95e8769b68a7",  "date\_played": "2016-17-07",  "status": "complete",  "round": "19",  "playing\_field": "UOW Jubilee Oval, Sydney",  "winning\_team": "GLD",  "final\_result": "32-12",  "home\_team": {  "id": "STI",  "moniker": "Dragons",  "name": "St George Illawarra",  "league": "Telstra Premiership",  "points": 12,  "statistics": {  "points": {  "team": {  "tries": 2,  "conversions": 2,  "field\_goals": 0,  "penalty\_goals": 0  },  "players": [  {  "id": "7",  "name": "Kurt Mann",  "jersey": 4,  "position": "Winger2",  "mins": 80,  "all\_runs": 7,  "total\_runs\_metres": 85,  "tackles": 7,  "total\_missed\_tackles": 1,  "total\_line\_breaks": 2,  "total\_try\_assists": 0,  "tries": 2,  "total\_goals": 0,  "total\_field\_goals": 0,  "fantasy": 57,  "conversions":0  },{  "id": "6",  "name": "Gareth Widdop",  "jersey": 6,  "position": "Five-Eighth",  "mins": 80,  "all\_runs": 11,  "total\_runs\_metres": 92,  "tackles": 14,  "total\_missed\_tackles": 4,  "total\_line\_breaks": 0,  "total\_try\_assists": 0,  "tries": 0,  "total\_goals": 2,  "total\_field\_goals": 0,  "fantasy": 37,  "conversions":2  }  ]  },  "possession": {  "team": {  "possession%": 48,  "total\_sets": 34,  "complete\_sets": 24,  "completion\_rates%": 71  }  },  "attack": {  "team": {  "all\_runs": 177,  "all\_run\_metres": 1540,  "line\_breaks": 4,  "offloads": 9  }  },  "defence": {  "team": {  "kick\_metres": 408,  "40/20": 0,  "tackles": 367,  "missed\_tackles": 25,  "goal\_line\_dropouts": 3,  "try\_saves": 3  }  },  "discipline": {  "team": {  "penalties\_conceded": 4,  "errors": 8,  "send\_offs": 0,  "sin\_bins": 0  }  }  }  },  "away\_team": {  "id": "GLD",  "moniker": "Titans",  "name": "Gold Coast",  "league": "Telstra Cup",  "points": 32,  "statistics": {  "points": {  "team": {  "tries": 6,  "conversions": 4,  "field\_goals": 0,  "penalty\_goals": 0  },  "players": [  {  "id": "1",  "name": "David Mead",  "jersey": 1,  "position": "Winger2",  "mins": 80,  "all\_runs": 16,  "total\_runs\_metres": 164,  "tackles": 8,  "total\_missed\_tackles": 3,  "total\_line\_breaks": 1,  "total\_try\_assists": 0,  "tries": 1,  "total\_goals": 0,  "total\_field\_goals": 0,  "fantasy": 50,  "conversions":0  },{  "id": "2",  "name": "Anthony Don",  "jersey": 2,  "position": "Winger1",  "mins": 80,  "all\_runs": 11,  "total\_runs\_metres": 127,  "tackles": 3,  "total\_missed\_tackles": 3,  "total\_line\_breaks": 0,  "total\_try\_assists": 0,  "tries": 1,  "total\_goals": 0,  "total\_field\_goals": 0,  "fantasy": 18,  "conversions":0  },{  "id": "5",  "name": "Nene Macdonald",  "jersey": 5,  "position": "Winger2",  "mins": 69,  "all\_runs": 15,  "total\_runs\_metres": 236,  "tackles": 4,  "total\_missed\_tackles": 0,  "total\_line\_breaks": 0,  "total\_try\_assists": 0,  "tries": 2,  "total\_goals": 0,  "total\_field\_goals": 0,  "fantasy": 58,  "conversions":0  },{  "id": "6",  "name": "Tyrone Roberts",  "jersey": 6,  "position": "Five-Eighth",  "mins": 80,  "all\_runs": 6,  "total\_runs\_metres": 33,  "tackles": 17,  "total\_missed\_tackles": 1,  "total\_line\_breaks": 0,  "total\_try\_assists": 1,  "tries": 0,  "total\_goals": 4,  "total\_field\_goals": 0,  "fantasy": 63,  "conversions":4  },{  "id": "9",  "name": "Nathan Peats",  "jersey": 9,  "position": "Hooker",  "mins": 66,  "all\_runs": 10,  "total\_runs\_metres": 78,  "tackles": 43,  "total\_missed\_tackles": 1,  "total\_line\_breaks": 0,  "total\_try\_assists": 0,  "tries": 1,  "total\_goals": 0,  "total\_field\_goals": 0,  "fantasy": 66,  "conversions":0  },{  "id": "12",  "name": "Chris McQueen",  "jersey": 12,  "position": "2nd Row 2",  "mins": 80,  "all\_runs": 9,  "total\_runs\_metres": 68,  "tackles": 45,  "total\_missed\_tackles": 5,  "total\_line\_breaks": 1,  "total\_try\_assists": 0,  "tries": 1,  "total\_goals": 0,  "total\_field\_goals": 0,  "fantasy": 65,  "conversions":0  }  ]  },  "possession": {  "team": {  "possession%": 52,  "total\_sets": 39,  "complete\_sets": 33,  "completion\_rates%": 85  }  },  "attack": {  "team": {  "all\_runs": 186,  "all\_run\_metres": 1858,  "line\_breaks": 5,  "offloads": 12  }  },  "defence": {  "team": {  "kick\_metres": 605,  "40/20": 0,  "tackles": 374,  "missed\_tackles": 27,  "goal\_line\_dropouts": 2,  "try\_saves": 5  }  },  "discipline": {  "team": {  "penalties\_conceded": 3,  "errors": 8,  "send\_offs": 0,  "sin\_bins": 0  }  }  }  },  "play\_by\_play":"The Titans – led by Josh Hoffman, Tyrone Roberts and two-try hero Nene Macdonald – were simply too good for the Dragons who had to deal with the mid-week withdrawals of Benji Marshall (hamstring) and Josh Dugan (jaw).  The Dragons found themselves in the top eight following the NRL's decision to strip the Parramatta Eels of 12 competition points but could now end the weekend as low as tenth.  The scene was set early for the Titans when Dragons halfback Josh McCrone ended the Red V's first set of the game by kicking it out on the full in his own half.  It led to Gold Coast's first try after four minutes when winger Macdonald leapt high above the likes of Euan Aitken and Kalifa Faifai Loa to latch on to a Roberts cross-field kick.  The Titans posted an 8-0 lead in the eighth minute when Chris McQueen strolled over past Mitch Rein and Tim Lafai thanks to handy lead-up work from halfback Ash Taylor.  It took until the 12th minute for the Dragons to complete their first set, and five minutes later winger Kurt Mann handed the Titans a lesson in persistence when he somehow managed to get his arm free from the clutches of McQueen and Taylor to touch down.  Titans centre Hoffman had the last laugh in the first half when in the 27th minute he pulled off a wicked step past Aitken to bust free and send hooker Nathan Peats over to score.  Up 14-6 at half-time, it took the Titans just one minute into the second half to score again through David Mead. It all began when Hoffman batted back a Roberts bomb to Agnatius Paasi, with the forward producing a magic offload for the returning fullback's four-pointer.  The Dragons threatened to make a game of it in the 56th minute but an attacking raid would be put to bed by Macdonald, who intercepted a wild Gareth Widdop pass to race 90 metres and score his second of the game.  Dragons hooker Rein found himself heading up the tunnel in the final 12 minutes but it would be the barnstorming run of Konrad Hurrell which made matters worse for the Red V in the final six minutes.  Hurrell well and truly buried Widdop on his way to assisting Anthony Don's 74th minute try, to ensure the Titans' eventual 20-point victory.  Gold Coast Titans 32 (Nene Macdonald 2, Chris McQueen, Nathan Peats, David Mead, Anthony Don tries; Tyrone Roberts 4 goals) defeated St George Illawarra Dragons 12 (Kurt Mann 2 tries; Gareth Widdop 2 goals) at UOW Jubilee Oval. Crowd: 8,256. Half-time: Titans 14-6. On Report: Greg Bird (Titans) – high tackle. "  } | | | | |

Post Game Results

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Method | Name | Endpoint | Description | Rate Limits |
| POST | Match Results | Ver3/:year/:round/:played\_date/game:format | Add match results for completed games using year, round and date | 1000 p/d |
| Parameters | Values | Data Type | Description | |
| :year | 2016 | Num | Season year | |
| :round | 19 | Num | Round | |
| :played\_date | 17-07-2016 | Date | Date game played | |
| :format | json/xml | String | Output format | |
| Request Headers | | | | |
| X-Originating-Ip: 101.176.192.70 | | | | |
| Request URI | | | | |
| http://api.scoreline.com.au/ver3/rugby/2016/19/15072016/game.json?api\_key=nde7czs79qkhyvrx8bd8j48n | | | | |
| Response Status | | | | |
| 201 CREATED | | | | |
| Response Headers | | | | |
| Accept-Ranges: bytes | | | | |
| Cache-Control: public, must-revalidate, max-age=2 | | | | |
| Content-Type: application/json | | | | |
| Date: Sun, 17 Jul 2016 04:16:46 GMT | | | | |
| Etag: "7b98b5d55a39491c52eff40ed67e31e9" | | | | |
| Last-Modified: Fri, 15 Apr 2016 00:27:25 GMT | | | | |
| X-Rate-Limit-Limit: 1000 | | | | |
| X-Rate-Limit-Remaining: 598 | | | | |
| Response Body | | | | |
| {  "id": "718a4f52-c6af-4080-b955-95e8769b68a7",  "date\_played": "2016-17-07",  "status": "complete",  "round": "19",  "playing\_field": "UOW Jubilee Oval, Sydney",  "winning\_team": "GLD",  "final\_result": "22-12",  "home\_team": {  "id": "PEN",  "moniker": "Panthers",  "name": "Penrith",  "league": "Telstra Premiership",  "points": 22,  "statistics": {  "points": {  "team": {  "tries": 4,  "conversions": 3,  "field\_goals": 0,  "penalty\_goals": 0  },  "players": [  {  "id": "10",  "name": "Reagan Campbell-Gillard",  "jersey": 10,  "position": "Interchange",  "mins": 32,  "all\_runs": 8,  "total\_runs\_metres": 91,  "tackles": 12,  "total\_missed\_tackles": 1,  "total\_line\_breaks": 1,  "total\_try\_assists": 0,  "tries": 1,  "total\_goals": 0,  "total\_field\_goals": 0,  "fantasy": 34,  "conversions":0  },{  "id": "17",  "name": "Tyrone Peachey",  "jersey": 17,  "position": "Centre 2",  "mins": 80,  "all\_runs": 16,  "total\_runs\_metres": 167,  "tackles": 12,  "total\_missed\_tackles": 3,  "total\_line\_breaks": 1,  "total\_try\_assists": 1,  "tries": 1,  "total\_goals": 0,  "total\_field\_goals": 0,  "fantasy": 65,  "conversions":0  },{  "id": "6",  "name": "Bryce Cartwright",  "jersey": 6,  "position": "Five-Eighth",  "mins": 80,  "all\_runs": 9,  "total\_runs\_metres": 68,  "tackles": 23,  "total\_missed\_tackles": 0,  "total\_line\_breaks": 1,  "total\_try\_assists": 0,  "tries": 1,  "total\_goals": 0,  "total\_field\_goals": 0,  "fantasy": 45,  "conversions":0  },{  "id": "2",  "name": "Josh Mansour",  "jersey": 2,  "position": "Winger 1",  "mins": 80,  "all\_runs": 21,  "total\_runs\_metres": 246,  "tackles": 7,  "total\_missed\_tackles": 0,  "total\_line\_breaks": 3,  "total\_try\_assists": 0,  "tries": 1,  "total\_goals": 0,  "total\_field\_goals": 0,  "fantasy": 91,  "conversions":0  },{  "id": "7",  "name": "Nathan Cleary",  "jersey": 7,  "position": "Halfback",  "mins": 80,  "all\_runs": 3,  "total\_runs\_metres": 23,  "tackles": 14,  "total\_missed\_tackles": 2,  "total\_line\_breaks": 0,  "total\_try\_assists": 1,  "tries": 0,  "total\_goals": 3,  "total\_field\_goals": 0,  "fantasy": 44,  "conversions":3  }  ]  },  "possession": {  "team": {  "possession%": 48,  "total\_sets": 37,  "complete\_sets": 25,  "completion\_rates%": 68  }  },  "attack": {  "team": {  "all\_runs": 149,  "all\_run\_metres": 1408,  "line\_breaks": 6,  "offloads": 9  }  },  "defence": {  "team": {  "kick\_metres": 424,  "40/20": 0,  "tackles": 323,  "missed\_tackles": 31,  "goal\_line\_dropouts": 2,  "try\_saves": 2  }  },  "discipline": {  "team": {  "penalties\_conceded": 3,  "errors":11,  "send\_offs": 0,  "sin\_bins": 0  }  }  }  },  "away\_team": {  "id": "PAR",  "moniker": "Eels",  "name": "Parramatta",  "league": "Telstra Cup",  "points": 18,  "statistics": {  "points": {  "team": {  "tries": 4,  "conversions": 1,  "field\_goals": 0,  "penalty\_goals": 0  },  "players": [  {  "id": "19",  "name": "Bureta Faraimo",  "jersey": 19,  "position": "Winger1",  "mins": 80,  "all\_runs": 17,  "total\_runs\_metres": 123,  "tackles": 3,  "total\_missed\_tackles": 0,  "total\_line\_breaks": 1,  "total\_try\_assists": 0,  "tries": 1,  "total\_goals": 0,  "total\_field\_goals": 0,  "fantasy": 52,  "conversions":0  },{  "id": "5",  "name": "Bevan French",  "jersey": 5,  "position": "Winger2",  "mins": 80,  "all\_runs": 5,  "total\_runs\_metres": 31,  "tackles": 8,  "total\_missed\_tackles": 3,  "total\_line\_breaks": 0,  "total\_try\_assists": 0,  "tries": 2,  "total\_goals": 0,  "total\_field\_goals": 0,  "fantasy": 21,  "conversions":0  },{  "id": "2",  "name": "Clinton Gutherson",  "jersey": 2,  "position": "Five-Eighth",  "mins": 80,  "all\_runs": 12,  "total\_runs\_metres": 124,  "tackles": 8,  "total\_missed\_tackles": 0,  "total\_line\_breaks": 3,  "total\_try\_assists": 1,  "tries": 1,  "total\_goals": 0,  "total\_field\_goals": 0,  "fantasy": 52,  "conversions":0  },{  "id": "1",  "name": "Michael Gordon",  "jersey": 1,  "position": "Fullback",  "mins": 80,  "all\_runs": 12,  "total\_runs\_metres": 124,  "tackles": 5,  "total\_missed\_tackles": 3,  "total\_line\_breaks": 1,  "total\_try\_assists": 1,  "tries": 0,  "total\_goals": 1,  "total\_field\_goals": 0,  "fantasy": 52,  "conversions":1  }  ]  },  "possession": {  "team": {  "possession%": 52,  "total\_sets": 34,  "complete\_sets": 26,  "completion\_rates%": 76  }  },  "attack": {  "team": {  "all\_runs": 178,  "all\_run\_metres": 1606,  "line\_breaks": 6,  "offloads": 12  }  },  "defence": {  "team": {  "kick\_metres": 400,  "40/20": 0,  "tackles": 277,  "missed\_tackles": 39,  "goal\_line\_dropouts": 1,  "try\_saves": 0  }  },  "discipline": {  "team": {  "penalties\_conceded": 7,  "errors": 10,  "send\_offs": 0,  "sin\_bins": 0  }  }  }  },  "play\_by\_play":"The Eels exploded out of the blocks with three quick tries against a stunned Panthers outfit but with a host of backline stars already unavailable the injury to Jennings shortly before half-time saw coach Brad Arthur once again forced to use back-rowers out wide and an alert home side took full advantage, running three tries down the Eels' right edge shortly after half time.  The entire match was played at a furious pace and an Eels side that has suffered a crisis in the playmaking stocks with all of Corey Norman, Kieran Foran, Brad Takairangi, Luke Kelly and Mitch Cornish injured or suspended had to blood winger Clint Gutherson in the halves alongside the recently returned Jeff Robson – and the early signs were brilliant.  Gutherson was one of the best on field, showing a mature array of passing, kicking and running that bodes well for his long term future as a fullback or five eighth and he scored or helped set up all of his team's first three tries inside 16 minutes.  A momentum shift saw the home side roar back in the second half after holding just 34 per cent of possession in the opening 40 and despite a mixed night from five-eighth Bryce Cartwright a monumental game from Origin winger Josh Mansour (238 metres and 13 tackle breaks) helped the home side finish over the top of the brave but battered rivals in the second half.  An early onslaught led by the blue and gold forwards shell-shocked a Penrith side that seemed to come out of the sheds 10 minutes slower than their opponents.  Some blistering runs from props Tim Mannah and Daniel Alvaro (who came on in the first minute when Danny Wicks was taken for a concussion check) set the platform and both registered early line breaks.  Utility back Clint Gutherson had a blistering start to his halves career at NRL level with a try and some lovely passes and kicks while centre Michael Jennings picked up where he left off after Wednesday night's Origin-winning try with some searing first half runs before a hamstring strain ended his night early and forced the Eels into shifting forwards out wide yet again.  The first try came in just the second minute off the back of an early penalty against the home side and Alvaro's line break from a nice Robson pass to set the scene, before a nicely held up pass from Gutherson to Gordon put Bureta Faraimo over.  Prodigious youngster Bevan French added another try to his burgeoning tally when he swooped in on a Gutherson grubber in the 14th minute and bagged a double in the shadows of half time from a Robson cross field bomb.  After 25 minutes the Panthers had completed just three sets (out of seven) versus 11 of 12 for the Eels but the momentum began to turn shortly after when the home side was awarded a pair of back-to-back penalties and a Peter Wallace pass sent Reagan Campbell-Gillard crashing over.  From 18-6 down at the break Penrith took huge advantage of the absence of Jennings, which forced a reshuffle on the Parramatta right fringe with Beau Scott defending at centre inside French.  Josh Mansour, Bryce Cartwright and Tyrone Peachey all sliced through a disorganised blue and gold right edge in a 14-minute period that forced Brad Arthur to move Manu Ma'u across the field and Kenny Edwards to left centre with Scott returning to the middle of the field but the damage was done and at 22-18 up the Panthers had all the running.  The final 20 minutes of the contest were even more frantic than the first 20, if that were possible. A Gutherson line break saw him held up over the line by some furious last-ditch defence; the Eels were bundled into touch on both edges of the ground; Josh Mansour somehow ran a Robson grubber from his own dead-ball line back into the field of play under huge pressure; Gordon was tormented by a series of monstrous floating Nathan Cleary bombs and both teams hung on for grim life.  A few late chances for the Eels fell just short though in what was eventually a scoreless second half that effectively ends their slim hopes of an unlikely 2016 finals appearance – with Penrith now back to equal seventh on the ladder (ninth including for-and-against).  Penrith Panthers 22 (Campbell-Gillard, Peachey, Cartwright, Mansour tries; Cleary 3 goals) defeated Parramatta Eels 18 (French 2, Faraimo, Gutherson tries; Gordon goal) at Pepper Stadium. Half time: Eels 18-6. Crowd: 15,251. "  } | | | | |

Get Standings

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Method | Name | Endpoint | Description | Rate Limits |
| GET | Standings | Ver3/:year/standings:format | Obtain team standings for season given the year and response data type | 10000 p/d |
| Parameters | Values | Data Type | Description | |
| :year | 2016 | num | Season year | |
| :format | json/xml | String | Output format | |
| Request Headers | | | | |
| X-Originating-Ip: 101.176.192.70 | | | | |
| Request URI | | | | |
| http://api.scoreline.com.au/ver3/rugby/2016/standings.json?api\_key=nde7czs79qkhyvrx8bd8j48n | | | | |
| Response Status | | | | |
| 200 OK | | | | |
| Response Headers | | | | |
| Accept-Ranges: bytes | | | | |
| Cache-Control: public, must-revalidate, max-age=2 | | | | |
| Content-Type: application/json | | | | |
| Date: Sun, 17 Jul 2016 04:16:46 GMT | | | | |
| Etag: "7b98b5d55a39491c52eff40ed67e31e9" | | | | |
| Last-Modified: Fri, 15 Apr 2016 00:27:25 GMT | | | | |
| Content-Length: 1764 | | | | |
| X-Rate-Limit-Limit: 10000 | | | | |
| X-Rate-Limit-Remaining: 9798 | | | | |
| X-Rate-Limit-Reset: 11545 | | | | |
| Response Body | | | | |
| {  "season": 2016,  "type": "REG",  "league": [{  "id": "NRL",  "name": "NRL",  "division": [{  "id": "FIRST\_GRADE",  "name": "First Grade",  "teams": [{  "id": "MAN",  "name": "Manly",  "moniker": "Sea Eagles",  "matches\_played": 17,  "wins": 5,  "wins\_overtime": 1,  "draws": 0,  "losses\_overtime": 0.75,  "losses": 1,  "goals": "319:387",  "points": 16  },{  "id": "WAR",  "name": "New Zealand",  "moniker": "Warriors",  "matches\_played": 17,  "wins": 7,  "wins\_overtime": 1,  "draws": 0,  "losses\_overtime": 2,  "losses": 7,  "goals": "377:394",  "points": 20  },{  "id": "SOU",  "name": "Souths",  "moniker": "Rabbitohs",  "matches\_played": 17,  "wins": 5,  "wins\_overtime": 0,  "draws": 0,  "losses\_overtime": 1,  "losses": 11,  "goals": "328:410",  "points": 14  },{  "id": "BRI",  "name": "Brisbane",  "moniker": "Broncos",  "matches\_played": 17,  "wins": 9,  "wins\_overtime": 1,  "draws": 0,  "losses\_overtime": 0,  "losses": 7,  "goals": "406:307",  "points": 24  }]  }]  }]  } | | | | |

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Or XML  
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|  |
| --- |
| Response Body |
| <?xml version="1.0" encoding="UTF-8"?>  <standings xmlns="http://api.scoreline.com/Ver3/nrl/standings-v1.0.xsd" season="2016" type="REG">  <league id="NRL" name="NRL">  <division id="FIRST\_GRADE" name="First Grade">  <team id="MAN" name="Manly" moniker="Sea Eagles">  <matches\_played matches\_played="17"/>  <wins wins="5"/>  <wins\_overtime wins\_overtime="1"/>  <draws draws="0"/>  <losses\_overtime losses\_overtime="0"/>  <losses losses="11"/>  <goals goals="319:387"/>  <points points="16"/>  </team>  <team id="WAR" name="New Zealand" moniker="Warriors">  <matches\_played matches\_played="17"/>  <wins wins="7"/>  <wins\_overtime wins\_overtime="1"/>  <draws draws="0"/>  <losses\_overtime losses\_overtime="2"/>  <losses losses="7"/>  <goals goals="377:394"/>  <points points="20"/>  </team>  <team id="SOU" name="Souths" moniker="Rabbitohs">  <matches\_played matches\_played="17"/>  <wins wins="5"/>  <wins\_overtime wins\_overtime="0"/>  <draws draws="0"/>  <losses\_overtime losses\_overtime="1"/>  <losses losses="11"/>  <goals goals="328:410"/>  <points points="14"/>  </team>  <team id="BRI" name="Brisbane" moniker="Broncos">  <matches\_played matches\_played="17"/>  <wins wins="9"/>  <wins\_overtime wins\_overtime="1"/>  <draws draws="0"/>  <losses\_overtime losses\_overtime="0"/>  <losses losses="7"/>  <goals goals="406:307"/>  <points points="24"/>  </team>  </division>  </league>  </standings> |

2. **Nascar Racing**  
Methods:

* Get: Race Timetable
* Get: Driver Details - filtered
* Put: Driver Details

Get Race Timetable

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Method | Name | Endpoint | Description | Rate Limits |
| GET | Race Timetable | Ver3/:year/race:format | Obtain timetable nascar races given the year and response data type | 1000 p/d |
| Parameters | Values | Data Type | Description | |
| :year | 2016 | num | Year | |
| :format | json/xml | String | Output format | |
| Request Headers | | | | |
| X-Originating-Ip: 101.176.192.70 | | | | |
| Request URI | | | | |
| http://api.scoreline.com.au/ver3/2016/race.json?api\_key=9sk6xewgn3e5jb2rbagwx59s | | | | |
| Response Status | | | | |
| 200 OK | | | | |
| Response Headers | | | | |
| Accept-Ranges: bytes | | | | |
| Cache-Control: public, must-revalidate, max-age=2 | | | | |
| Content-Type: application/json | | | | |
| Date: Sun, 17 Jul 2016 04:16:46 GMT | | | | |
| Etag: "925c6d79e0298b855c8f135daa8432b7" | | | | |
| Last-Modified: Sun, 17 Apr 2016 02:27:25 GMT | | | | |
| X-Rate-Limit-Limit: 1000 | | | | |
| X-Rate-Limit-Remaining: 398 | | | | |
| Response Body | | | | |
| {  "series": {  "id": "3e32047e",  "name": "NASCAR Sprint Cup",  "year": 2016  },  "events": [{  "id": "c1836cdd",  "name": "Daytona 500",  "start\_date": "2016-13-02",  "track": {  "name": "Daytona International Speedway",  "market": "Daytona Beach",  "distance": 2.5,  "shape": "Tri-Oval",  "seating": 101000,  "address": "1801 West International Speedway Blvd.",  "city": "Daytona Beach",  "state": "Florida",  "zip": "32114",  "country": "USA",  "id": "6ff97f68"  },  "races": [{  "id": "1",  "name": "Sprint Unlimited",  "status": "closed",  "distance": 187,  "laps": 75,  "scheduled": "2016-14-02",  "start\_time": "2016-14-02",  "end\_time": "2016-14-02",  "broadcast": {  "network": "FOX"  }  }, {  "id": "2",  "name": "Can-Am Duel At Daytona 1",  "status": "closed",  "distance": 150,  "laps": 60,  "scheduled": "2016-19-02",  "start\_time": "2016-19-02",  "end\_time": "2016-19-02",  "broadcast": {  "network": "FS1"  }  }, {  "id": "3",  "name": "Can-Am Duel At Daytona 2",  "status": "closed",  "distance": 150,  "laps": 60,  "scheduled": "2016-20-02",  "start\_time": "2016-20-02",  "end\_time": "2016-20-02",  "broadcast": {  "network": "FS1"  }  }, {  "id": "4",  "name": "Daytona 500",  "status": "closed",  "number": 1,  "distance": 500,  "laps": 200,  "scheduled": "2016-21-02",  "start\_time": "2016-21-02",  "end\_time": "2016-21-02",  "broadcast": {  "network": "FOX"  }  }]  },  {...},  {...},  ]  } | | | | |

Get Driver Details

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Method | Name | Endpoint | Description | Rate Limits |
| GET | Driver Details | Ver3/:year/:driver/drivers:format | Obtain driver details given the year,driver's name and response data type | 3500 p/d |
| Parameters | Values | Data Type | Description | |
| :year | 2016 | num | Season year | |
| :driver | Robert Richardson | String | Driver Name | |
| :format | json/xml | String | Output format | |
| Request Headers | | | | |
| X-Originating-Ip: 101.176.192.70 | | | | |
| Request URI | | | | |
| http://api.scoreline.com.au/ver3/rugby/2016/robert\_richardson/drivers.json?api\_key=nde7czs79qkhyvrx8bd8j48n | | | | |
| Response Status | | | | |
| 200 OK | | | | |
| Response Headers | | | | |
| Accept-Ranges: bytes | | | | |
| Cache-Control: public, must-revalidate, max-age=2 | | | | |
| Content-Type: application/json | | | | |
| Date: Sun, 17 Jul 2016 04:16:46 GMT | | | | |
| Etag: "7b98b5d55a39491c52eff40ed67e31e9" | | | | |
| Last-Modified: Fri, 15 Apr 2016 00:27:25 GMT | | | | |
| X-Rate-Limit-Limit: 3500 | | | | |
| X-Rate-Limit-Remaining: 3298 | | | | |
| X-Rate-Limit-Reset: 545 | | | | |
| Response Body | | | | |
| {  "season": {  "id": "14ef42df",  "year": 2016  },  "driver": [{  "id": "1",  "first\_name": "Robert",  "last\_name": "Richardson",  "full\_name": "Robert Richardson",  "birthday": "1982-04-04",  "gender": "M",  "status": "ACT",  "country": "UNITED STATES",  "residence": "Charlotte, North Carolina, United States",  "birth\_place": "McKinney, Texas, United States",  "driver\_race\_statistics": [{  "starts": 10,  "wins": 2,  "top\_5": 4,  "top\_10": 5,  "running\_at\_finish": 10,  "lead\_lap\_finish": 4,  "laps\_completed": 62,  "laps\_led": 27,  "kms\_completed": 340.0  }],  "next\_race\_date": "2016-25-07",  "track":"Daytona"  }]  } | | | | |

Put Driver Statistics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Method | Name | Endpoint | Description | Rate Limits |
| PUT | Driver Details | Ver3/:year/:driver/drivers:format | Obtain timetable for season given the year and response data type | 3000 p/d |
| Parameters | Values | Data Type | Description | |
| :year | 2016 | num | Season year | |
| :driver | Eddie MacDonald | String | Driver Name | |
| :format | json/xml | String | Output format | |
| Request Headers | | | | |
| X-Originating-Ip: 101.176.192.70 | | | | |
| Request URI | | | | |
| http://api.scoreline.com.au/ver3/rugby/2016/drivers.json?api\_key=nde7czs79qkhyvrx8bd8j48n | | | | |
| Response Status | | | | |
| 200 OK | | | | |
| Response Headers | | | | |
| Accept-Ranges: bytes | | | | |
| Cache-Control: public, must-revalidate, max-age=2 | | | | |
| Content-Type: application/json | | | | |
| Date: Sun, 17 Jul 2016 04:16:46 GMT | | | | |
| Etag: "7b98b5d55a39491c52eff40ed67e31e9" | | | | |
| Last-Modified: Fri, 15 Apr 2016 00:27:25 GMT | | | | |
| Server: nginx | | | | |
| Content-Length: 7158 | | | | |
| X-Rate-Limit-Limit: 3000 | | | | |
| X-Rate-Limit-Remaining: 2798 | | | | |
| X-Rate-Limit-Reset: 16545 | | | | |
| Response Body | | | | |
| {  "season": {  "id": "14ef42df",  "year": 2016  },  "driver": [{  "id": "21",  "first\_name": "Eddie",  "next\_race\_date": "2016-19-07",  "track":"Sprint Unlimited",  "distance": 5.1,  "laps": 75  }]  } | | | | |