



CricEngine API V1.1.2

Outputting data for external devices

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Introduction

This technical document will explain the API that allows external devices to get information from the CricHQ mobile application. This API has been designed with scoreboards in mind. It will allow external devices to connect to a mobile device with CricHQ installed and receive notification events. External devices will listen to these notification events and use this information to work out what screen to show. The external device will call the necessary APIs to get the information it needs for its view. The API is versioned to allow future updates. The information passed between devices will be all in JSON.

Setting Up

The mobile device will connect to the external device using [Bonjour](#). Connection to our device will be done by a simple APP UI that shows all the listed external devices, allowing the user to make the choice. Also, we will support auto connection if enabled in the setting, this will be enabled by default. The auto connection will connect to the first device that replies back.

The external device should give a good service name that the user will recognise e.g Scoreboard_9645.

Bonjour settings:

Service Port: 0 (Any)

Service Type: _cricviewing

Service Protocol: _tcp

Service Domain: local

The service type will be registered here in the future: <http://www.iana.org/form/ports-services>

Length of Packet

At the start of each block of Json, there will be a length (little-endian) value. The length will be 8 bytes and this number gives you the Json length. When sending Json you will also need to include this 8-byte length value.

Security

No security support yet. Anyone accessing the network with the CricHQ application could take

over the connected device (e.g scoreboard).

A passcode could be typed in for protected external devices as a future feature.

Versioning

The API (for a particular version) will not change over time unless it is totally necessary, e.g to fix bugs. Statistics calculated like MVP, DLS, projections, etc values will change over time and API versions will have no effect.

| Version | Major Changes |
|---------|---|
| 1.0.0 | First Version. |
| 1.1.1 | Add the method "getStatsToWin". Add the method "getLast10Events". Event notifications now have guid and timestamp information. Rename JSON keys: -"foursCount" to "boundaryFourCount". -"sixesCount", to "boundarySixCount". -"partnershipBalls", to "partnershipDeliveries". -"legalDeliveriesBowledIndex" to "legalDeliveriesBowled". Add "showTargetResults" flag for DLS. Add "ignoreStats" flag and "legalDeliveryDisplay" for actions. Add match guid to event notifications. |
| 1.1.2 | Added "clientTimestamp" to event notifications. Added "order" to event notifications. |

Application Programming Interface

Once the external device is connected to the scoring device, it can call any method by passing the JSON to the scoring device. The API will auto fire notifications of events back to the external device with the event type. The external device can call any method in the API.

To grab data from a mobile device running CricHQ you always need to send JSON to say which method (as `method`) are you calling and what version (as `apiVersion`) of the method.

The returned JSON always gives back the method name (under `methodCaller`) that was originally called and the API version number (as `apiVersion`).

| Input Arguments | Type | What does it do |
|-----------------|------|-----------------|
|-----------------|------|-----------------|

| | | |
|------------|--------|-------------------------|
| method | String | Method being called. |
| apiVersion | String | Api version to be used. |

| Output Arguments | Type | What does it do |
|------------------|--------|-------------------|
| methodCaller | String | Method called. |
| apiVersion | String | Api version used. |

Basic example sent:

```
{
  "method": "getScorecard", //Method name to call.
  "apiVersion": "1.0.0"    //API version to use for this method.
}
```

Basic example received:

```
{
  "methodCaller": "getScorecard", //Method name that was called
  "apiVersion": "1.0.0"          //API version which was used for this method.
}
```

API methods list

| Method name | What does it do |
|---|--|
| getLatestVersion | Get the latest version of the API. |
| getScorecard | Get the stats needed to build a full scorecard view. |
| getLastActionCommentary | Get last game action commentary. |
| getBattingBowlingView | Get the stats needed to build a batting and bowling view. |
| getOverCommentary | Get commentary for an over. |
| getBattingTeamAnalysis | Get batting team analysis stats. |
| getOverSummary | Get over summary. |
| getDuckworthLewisStern | Get Duckworth Lewis Stern (DLS) stats (latest version is calculated). Previously called Duckworth Lewis. |

| | |
|-------------------------------------|---|
| getOversLost | Get the overs lost in a match. |
| getMatchState | Get the state of the match. |
| getEventCount | Get event count. |
| getOverIndex | Get active over index. |
| getInningsIndex | Get active innings index. |
| getMatchScoreView | Get the current scores to build a score view. |
| getTickerTape | Get the text shown on the ticker tape. |
| getEventTypesPlayed | Get a list of all the event types were played in the match. |
| getLastOverSummary | Get last over summary. |
| getStatsToWin | Get to win stats. |

API methods

Get Latest Version

Method name: `getLatestVersion`

Get the latest version of the API.

| Output Arguments | Type | What does it do |
|----------------------------|--------|---------------------|
| <code>latestVersion</code> | String | Latest API version. |

Example Json sent:

```
{
  "method": "latestVersion",
  "apiVersion": "1.0.0"
}
```

This could return:

```
{
  "methodCaller": "latestVersion",
  "apiVersion": "1.0.0",
  "latestVersion": "1.0.5"
}
```

Get Scorecard

Method name: `getScorecard`

Get the stats needed to build a full scorecard view.

| Output Arguments | Type | What does it do |
|--------------------------------|--|---|
| <code>awayTeamBasic</code> | Object (Team Basic) | Away team. |
| <code>inningsIndex</code> | int | Innings index. |
| <code>homeTeamBasic</code> | Object (Team Basic) | Home team. |
| <code>inningsScorecards</code> | Array of Objects (Innings Scorecard) | Innings scorecards. |
| <code>isHomeTeamBatting</code> | Boolean | Is the home team batting. |
| <code>matchState</code> | Enum (Match State) | The state of what the match is in. |
| <code>matchEndCategory</code> | Enum (Match End Category) | Able to check if there is a winner at the end of a match. |

Example Json sent:

```
{
  "method": "getScorecard",
  "apiVersion": "1.0.0"
}
```

This could return:

```
{
  "apiVersion" : "1.0.0",
  "awayTeamBasic" : {
    "clubServerId" : "51785",
    "id" : 2,
    "name" : "Sunrisers Hyderabad, SH",
    "serverId" : "51806"
  },
  "homeTeamBasic" : {
    "clubServerId" : "51777",
    "id" : 1,
```



```

    "name" : "Royal Challengers Bangalore, RCB",
    "serverId" : "51803"
  },
  "inningsIndex" : 0,
  "inningsScorecards" : [
    {
      "batterListStats" : [
        {
          "batter" : {
            "id" : 4,
            "name" : "AB de Villiers",
            "serverId" : "283428",
            "unsure" : false
          },
          "batterOrderIndex" : 2,
          "deliveriesFaced" : 1,
          "dotBallCount" : 0,
          "foursCount" : 0,
          "isDismissed" : false,
          "overCount" : 0,
          "score" : 1,
          "sixesCount" : 0,
          "strikeRate" : 100,
          "timeInPlay" : -51
        },
        {
          "batter" : {
            "id" : 2,
            "name" : "M Bisla",
            "serverId" : "780743",
            "unsure" : false
          },
          "batterOrderIndex" : 1,
          "deliveriesFaced" : 6,
          "dotBallCount" : 2,
          "foursCount" : 0,
          "isDismissed" : true,
          "outAction" : {
            "actionType" : 3,
            "bowler" : {
              "id" : 12,
              "name" : "B Kumar",

```

```

        "serverId" : "365001",
        "unsure" : false
    },
    "extraPoints" : 0,
    "extraType" : 0,
    "facingBatsman" : {
        "id" : 2,
        "name" : "M Bisla",
        "serverId" : "780743",
        "unsure" : false
    },
    "fielders" : null,
    "id" : 18,
    "inningsIndex" : 0,
    "keeper" : {
        "id" : 20,
        "name" : "NV Ojha",
        "serverId" : "419333",
        "unsure" : false
    },
    "legalDeliveryIndex" : 5,
    "nonActiveBowler" : {
        "id" : 21,
        "name" : "RS Bopara",
        "serverId" : "1032691",
        "unsure" : false
    },
    "nonFacingBatsman" : {
        "id" : 1,
        "name" : "CH Gayle",
        "serverId" : "284104",
        "unsure" : false
    },
    "outPlayer" : {
        "id" : 2,
        "name" : "M Bisla",
        "serverId" : "780743",
        "unsure" : false
    },
    "overIndex" : 2,
    "wicketType" : 3
},

```

```

        "overCount" : 3,
        "score" : 3,
        "sixesCount" : 0,
        "strikeRate" : 50,
        "timeInPlay" : 41
    },
    {
        "batter" : {
            "id" : 1,
            "name" : "CH Gayle",
            "serverId" : "284104",
            "unsure" : false
        },
        "batterOrderIndex" : 0,
        "deliveriesFaced" : 15,
        "dotBallCount" : 1,
        "foursCount" : 4,
        "isDismissed" : false,
        "overCount" : 3,
        "score" : 41,
        "sixesCount" : 3,
        "strikeRate" : 273.33334350585938,
        "timeInPlay" : 0
    }
],
"bowlerListStats" : [
    {
        "average" : 0,
        "bowler" : {
            "id" : 21,
            "name" : "RS Bopara",
            "serverId" : "1032691",
            "unsure" : false
        },
        "legalDeliveriesBowled" : 4,
        "legalDeliveriesBowledCount" : 10,
        "legalDeliveriesBowledIncompleteOversCount" : 0,
        "dotBallsCount" : 1,
        "maidens" : 0,
        "noBallPoints" : 0,
        "overCount" : 1,
        "rpo" : 15,

```

```

    "score" : 25,
    "wicketsCount" : 0,
    "widePoints" : 0
  },
  {
    "average" : 20,
    "bowler" : {
      "id" : 12,
      "name" : "B Kumar",
      "serverId" : "365001",
      "unsure" : false
    },
    "legalDeliveriesBowled" : 0,
    "legalDeliveriesBowledCount" : 12,
    "legalDeliveriesBowledIncompleteOversCount" : 0,
    "dotBallsCount" : 2,
    "maidens" : 0,
    "noBallPoints" : 0,
    "overCount" : 2,
    "rpo" : 10,
    "score" : 20,
    "wicketsCount" : 1,
    "widePoints" : 0
  }
],
"notes" : null,
"powerPlays" : null,
"stats" : {
  "actionIndex" : 4,
  "boundary6Count" : 3,
  "byePoints" : 0,
  "byesCount" : 0,
  "deliveryCount" : 22,
  "dotBallPercent" : 13.636363983154297,
  "dotBallsCount" : 3,
  "extraPoints" : 0,
  "legByePoints" : 0,
  "legByesCount" : 0,
  "legalDeliveries" : 4,
  "maidenCount" : 0,
  "maidenPercent" : 0,
  "noBallPoints" : 0,

```

```

        "noBallsCount" : 0,
        "overIndex" : 3,
        "partnershipDeliveries" : 4,
        "partnershipScore" : 12,
        "penaltyBattingPoints" : 0,
        "penaltyBowlingPoints" : 0,
        "rpo" : 12.272727012634277,
        "runsFromBoundariesCount" : 34,
        "runsFromBoundariesPercent" : 75.555557250976562,
        "score" : 45,
        "wicketCount" : 1,
        "wideAndNoBallsPercent" : 0,
        "widePoints" : 0,
        "widesCount" : 0
    }
}
],
"isHomeTeamBatting" : true,
"matchEndCategory" : -1,
"matchState" : 2,
"methodCaller" : "getScorecard"
}

```

Get Last Action Commentary

Method: `getLastActionCommentary`

Get last game action commentary.

Object: [Commentary Action](#)

Example Json sent:

```

{
    "method": "getLastActionCommentary",
    "apiVersion": "1.0.0"
}

```

Example JSON received:

```

{
    "actionType": 3,
    "apiVersion": "1.0.0",
    "bowler": {
        "id": 9,

```

```

        "name": "MA Starc",
        "serverId": "282770",
        "unsure": false
    },
    "commentary": "[bowler] to [batsman], Wicket! [outbatsman] 0. Big appeal for LBW - That's out!",
    "facingBatsman": {
        "id": 12,
        "name": "B Kumar",
        "serverId": "365001",
        "unsure": false
    },
    "historicalStats": {
        "score": 173,
        "wicketCount": 8
    },
    "id": 241,
    "legalDeliveryIndex": 5,
    "methodCaller": "getLastActionCommentary",
    "overIndex": 19
}

```

Get Over Summary

Get the main over ball display.

Method name: `getOverSummary`

| Output Arguments | Type | What does it do |
|------------------|--|--|
| actions | Array of Objects (Action) | Ball actions in this over. |
| inningsIndex | int | Innings index that this over is in. |
| isActive | Boolean | Is this over active. |
| isComplete | Boolean | Is this over complete. |
| isMaiden | Boolean | Is this over a maiden. |
| deliveries | int | The number of deliveries in this over. |
| legalDeliveries | int | The legal number of deliveries in this |

| | | |
|---------------------|-----|------------------------------------|
| | | over. |
| id | int | The ID of the over. |
| index | int | The index of the over. |
| score | int | The score for this over. |
| remainingDeliveries | int | Remaining deliveries in this over. |

Example Json sent:

```
{
  "method": "getOverSummary",
  "apiVersion": "1.0.0"
}
```

Example JSON received:

```
{
  "actions":[
    {
      "actionType":1,
      "boundaryType":2,
      "bowler":{
        "id":21,
        "name":"RS Bopara",
        "serverId":"1032691",
        "unsure":false
      },
      "facingBatsman":{
        "id":1,
        "name":"CH Gayle",
        "serverId":"284104",
        "unsure":false
      },
      "hasPitchMap":false,
      "hasWagonWheel":false,
      "id":19,
      "ignoreStats":false,
      "inningsIndex":0,
      "keeper":{
        "id":20,
        "name":"NV Ojha",

```

```

        "serverId": "419333",
        "unsure": false
    },
    "legalDeliveryDisplay": 1,
    "legalDeliveryIndex": 0,
    "nonActiveBowler": {
        "id": 12,
        "name": "B Kumar",
        "serverId": "365001",
        "unsure": false
    },
    "nonFacingBatsman": {
        "id": 4,
        "name": "AB de Villiers",
        "serverId": "283428",
        "unsure": false
    },
    "overIndex": 3,
    "pitchMapBackSquare": 0,
    "pitchMapBadBowl": false,
    "pitchMapPitchSquare": 0,
    "runs": 6,
    "toKeeper": false,
    "wagonWheelCutProportion": 0,
    "wagonWheelEllipseProportion": 0,
    "wagonWheelHeightProportion": 0,
    "wagonWheelHitAngleRadians": 0
    },
    [...]
],
"apiVersion": "1.1.0",
"deliveries": 4,
"id": 4,
"index": 3,
"inningsIndex": 0,
"isActive": true,
"isComplete": false,
"isMaiden": false,
"legalDeliveries": 4,
"methodCaller": "getOverSummary",
"remainingDeliveries": 2,
"score": 12

```



```
}
```

Get Last Over Summary

Get the last over summary.

Method name: `getLastOverSummary`

Same as [getOverSummary](#).

Get Over Commentary

Method name: `getOverCommentary`

| Output Arguments | Type | What does it do |
|--------------------------------|---|---------------------------------|
| <code>commentary</code> | String | Commentary for the over. |
| <code>commentaryActions</code> | Array of Objects (Commentary Action) | The list of commentary actions. |
| <code>inningsIndex</code> | int | The innings index. |
| <code>index</code> | int | The over index. |
| <code>isComplete</code> | Bool | Is this over complete. |

Example Json sent:

```
{
  "method": "getOverCommentary",
  "apiVersion": "1.0.0",
}
```

Example JSON received:

```
{
  "apiVersion" : "1.0.0",
  "commentary" : "End of over 4, 33/1",
  "commentaryActions" :
  [
    {
      "actionType" : 1,
      "bowler" :
      {
```

```

        "id" : 21,
        "name" : "RS Bopara",
        "serverId" : "1032691",
        "unsure" : false
    },
    "commentary" : "[bowler] to [batsman], SIX!",
    "facingBatsman" :
    {
        "id" : 1,
        "name" : "CH Gayle",
        "serverId" : "284104",
        "unsure" : false
    },
    "historicalStats" :
    {
        "score" : 39,
        "wicketCount" : 1
    },
    "id" : 19,
    "legalDeliveryIndex" : 0,
    "overIndex" : 3
    }
],
"index" : 3,
"inningsIndex" : 0,
"isComplete" : false,
"methodCaller" : "getOverCommentary"
}

```

Get Match Score View

Method name: getMatchScoreView

| Output Arguments | Type | What does it do |
|-------------------|--|------------------------|
| awayTeamBasic | Object (Team Basic) | Away team. |
| inningsIndex | int | Innings index in play. |
| homeTeamBasic | Object (Team Basic) | Home team. |
| inningsScoreStats | Array of Objects (Innings Batting Score Stats) | Innings score stats. |

| | | |
|-------------------|---|---|
| isHomeTeamBatting | Boolean | Is home team batting. |
| matchState | Enum (Match State) | The match state. |
| matchEndCategory | Enum (Match End Category) | Able to check if there is a winner at the end of a match. |

Example Json sent:

```
{
  "method": "getMatchScoreView",
  "apiVersion": "1.0.0"
}
```

Example JSON received:

```
{
  "apiVersion": "1.0.0",
  "awayTeamBasic": {
    "clubServerId": "51785",
    "id": 2,
    "name": "Sunrisers Hyderabad, SH",
    "serverId": "51806"
  },
  "homeTeamBasic": {
    "clubServerId": "51777",
    "id": 1,
    "name": "Royal Challengers Bangalore, RCB",
    "serverId": "51803"
  },
  "inningsIndex": 0,
  "inningsScoreStats": [
    {
      "battingTeam": {
        "clubServerId": "51777",
        "id": 1,
        "name": "Royal Challengers Bangalore, RCB",
        "serverId": "51803"
      },
      "endState": 0,
      "index": 0,
      "scoreStats": {
        "legalDeliveries": 4,
        "overIndex": 3,

```

```

        "score":45,
        "wicketCount":1
    }
},
"isHomeTeamBatting":true,
"matchEndCategory":-1,
"matchState":2,
"methodCaller":"getMatchScoreView"
}

```

Get Batting Bowling View

Method name: getBattingBowlingView

| Output Arguments | Type | What does it do |
|-----------------------|--|---------------------------|
| bowlerStats | Object (Bowler Stats) | Bowler stats. |
| facingBatsmanStats | Object (Batsman Stats) | Facing batsman stats. |
| nonFacingBatsmanStats | Object (Batsman Stats) | Non-facing batsman stats. |
| nonActiveBowlerStats | Object (Batsman Stats) | Opposite bowler stats. |

Example Json sent:

```

{
    "method": "getBattingBowlingView",
    "apiVersion": "1.0.0"
}

```

Example JSON received:

```

{
    "apiVersion" : "1.0.0",
    "bowlerStats" :
    {
        "average" : 0,
        "bowler" :
        {
            "id" : 21,

```

```

        "name" : "RS Bopara",
        "serverId" : "1032691",
        "unsure" : false
    },
    "legalDeliveriesBowled" : 4,
    "legalDeliveriesBowledCount" : 10,
    "legalDeliveriesBowledIncompleteOversCount" : 0,
    "dotBallsCount" : 1,
    "maidens" : 0,
    "noBallPoints" : 0,
    "overCount" : 1,
    "rpo" : 15,
    "score" : 25,
    "wicketsCount" : 0,
    "widePoints" : 0
},
"facingBatsmanStats" :
{
    "batter" :
    {
        "id" : 1,
        "name" : "CH Gayle",
        "serverId" : "284104",
        "unsure" : false
    },
    "batterOrderIndex" : 0,
    "deliveriesFaced" : 15,
    "dotBallCount" : 1,
    "foursCount" : 4,
    "isDismissed" : false,
    "overCount" : 3,
    "score" : 41,
    "sixesCount" : 3,
    "strikeRate" : 273.33334350585938,
    "timeInPlay" : 0
},
"methodCaller" : "getBattingBowlingView",
"nonActiveBowlerStats" :
{
    "average" : 20,
    "bowler" :
    {

```

```

        "id" : 12,
        "name" : "B Kumar",
        "serverId" : "365001",
        "unsure" : false
    },
    "legalDeliveriesBowled" : 0,
    "legalDeliveriesBowledCount" : 12,
    "legalDeliveriesBowledIncompleteOversCount" : 0,
    "dotBallsCount" : 2,
    "maidens" : 0,
    "noBallPoints" : 0,
    "overCount" : 2,
    "rpo" : 10,
    "score" : 20,
    "wicketsCount" : 1,
    "widePoints" : 0
},
"nonFacingBatsmanStats" :
{
    "batter" :
    {
        "id" : 4,
        "name" : "AB de Villiers",
        "serverId" : "283428",
        "unsure" : false
    },
    "batterOrderIndex" : 2,
    "deliveriesFaced" : 1,
    "dotBallCount" : 0,
    "foursCount" : 0,
    "isDismissed" : false,
    "overCount" : 0,
    "score" : 1,
    "sixesCount" : 0,
    "strikeRate" : 100,
    "timeInPlay" : -51
}
}

```

Get Stats To Win

Method name: `getStatsToWin`

| Output Arguments | Type | What does it do |
|--|---------|----------------------------------|
| <code>dlsInEffect</code> | Boolean | Is DLS is in effect. |
| <code>oversRemainingIncludingBreaks</code> | int | Overs renaming including breaks. |
| <code>oversUsedIncludingBreaks</code> | int | Overs used including breaks. |
| <code>runsToWin</code> | int | Runs to win. |
| <code>targetRunRate</code> | int | Target run rate. |
| <code>targetScore</code> | int | Target score. |

Example Json sent:

```
{
  "method": "getStatsToWin",
  "apiVersion": "1.1.0"
}
```

Example JSON received:

TODO

Get Duckworth Lewis Stern

Method name: `getDuckworthLewisStern`

| Output Arguments | Type | What does it do |
|--|---------|--|
| <code>inEffect</code> | Boolean | Is DLS in effect. |
| <code>oversRemainingIncludingBreaks</code> | int | Overs renaming including breaks. |
| <code>oversUsedIncludingBreaks</code> | int | Overs used including breaks. |
| <code>parScore</code> | int | Par score - it's the target score if the game was abandoned at that point. |
| <code>projectedScore</code> | int | DLS projected score. <i>Note: this not accurate and will be removed in future updates.</i> |

| | | |
|-------------------------|---------|----------------------------------|
| runsToWin | int | Runs to win. |
| runsToWinPerOver | int | Runs to win per over. |
| runsToWinPerOverAverage | int | Runs to win per over on average. |
| showResults | Boolean | Should show the results. |
| targetScore | int | Target score. |
| validResult | Boolean | Is the result valid. |
| winningBy | int | Winning by amount. |

Example Json sent:

```
{
  "method": "getDuckworthLewisStern",
  "apiVersion": "1.0.0"
}
```

Example JSON received:

```
{
  "methodCaller": "getDuckworthLewisStern",
  "apiVersion": "1.0.0",
  "inEffect" : false,
  "oversRemainingIncludingBreaks" : 20,
  "oversUsedIncludingBreaks" : 0,
  "parScore" : -1,
  "projectedScore" : 153,
  "runsToWin" : -1,
  "runsToWinPerOver" : -1,
  "runsToWinPerOverAverage" : -1,
  "showResults" : false,
  "targetScore" : -1,
  "validResult" : true,
  "winningBy" : -1
}
```

Get Overs Lost

Method name: `getOversLost`

Get the overs lost in a match.

Example Json sent:


```
{
  "method": "getOversLost",
  "apiVersion": "1.0.0"
}
```

Example JSON received:

```
{
  "methodCaller": "getOversLost",
  "apiVersion": "1.0.0",
  "oversLost": 0,
}
```

Get Match State

Method name: `getMatchState`

Get the state of the match.

| Output Arguments | Type | What does it do |
|-------------------------------|---|---------------------------------|
| <code>matchState</code> | Enum (Match State) | The current state of the match. |
| <code>matchEndCategory</code> | Enum (Match End Category) | Who won at the end of a match. |

Example Json sent:

```
{
  "method": "getMatchState",
  "apiVersion": "1.0.0"
}
```

Example JSON received:

```
{
  "methodCaller": "getMatchState",
  "apiVersion": "1.0.0",
  "matchState": 0,
}
```

Get Events Count

Method name: `getEventCount`

Get event count.

Example Json sent:

```
{
  "method": "getEventCount",
  "apiVersion": "1.0.0"
}
```

Example JSON received:

```
{
  "methodCaller": "getEventCount",
  "apiVersion": "1.0.0",
  "eventCount": 0,
}
```

Get Over Index

Method name: `getOverIndex`

Get active over index.

Example Json sent:

```
{
  "method": "getOverIndex",
  "apiVersion": "1.0.0"
}
```

Example JSON received:

```
{
  "methodCaller": "getOverIndex",
  "apiVersion": "1.0.0",
  "overIndex": 0,
}
```

Get Innings Index

Method name: `getInningsIndex`

Get active innings index.

Example Json sent:

```
{
  "method": "getInningsIndex",
  "apiVersion": "1.0.0"
}
```

Example JSON received:

```
{
  "methodCaller": "getInningsIndex",
  "apiVersion": "1.0.0",
  "inningsIndex": 0,
}
```

Get Ticker Tape

Method Name: `getTickerTape`

This matches what the application shows. This could be updated over time. Do not parse this text to get data out of it.

Example Json sent:

```
{
  "method": "getTickerTape",
  "apiVersion": "1.0.0"
}
```

Example JSON received:

```
{
  "methodCaller": "getTickerTape",
  "apiVersion": "1.0.0",
  "tickerTapeText": "
    CricHQ projected score: 277
    Batting Team's Win Probability: 31%
    Partnership: 12
    Lead by 45 off 98 balls
    Target run rate: 2.8
  ",
}
```

Get Batting Team Analysis

Method Name: `getBattingTeamAnalysis`

| Output Arguments | Type | What does it do |
|---|------------------|------------------------------------|
| <code>deliveryCount</code> | <code>int</code> | Deliveries bowled. |
| <code>dotBallsCount</code> | <code>int</code> | Dot balls count. |
| <code>dotBallsPercent</code> | <code>int</code> | Dot balls percentage. |
| <code>extraPoints</code> | <code>int</code> | Extra score. |
| <code>highestBattingPartnershipScore</code> | <code>int</code> | Highest batting partnership score. |

| | | |
|--------------------------------------|-----|---|
| highestBattingScore | int | Highest batting score. |
| maidens | int | Maden count. |
| maidenPercent | int | Maiden percent. |
| oversCount | int | overs. |
| score | int | Score. |
| runsFromBoundaries | int | Runs from boundaries. |
| runsFromBoundariesPercent | int | Runs from boundaries percent (4's, 6's). |
| secondHighestBattingPartnershipScore | int | Second highest batting partnership score. |
| secondHighestBattingScore | int | Second highest batting score. |
| wicketCount | int | Wickets count. |
| wideAndNoBallsCount | int | Wide and no balls count. |
| wideAndNoBallsPercent | int | Wide and no balls percent. |

Example Json sent:

```
{
  "method": "getBattingTeamAnalysis",
  "apiVersion": "1.0.0"
}
```

Example JSON received:

```
{
  "apiVersion" : "1.0.0",
  "deliveryCount" : 22,
  "dotBallsCount" : 3,
  "dotBallsPercent" : 13.636363983154297,
  "extraPoints" : 0,
  "highestBattingPartnershipScore" : 33,
  "highestBattingScore" : 41,
  "maidenPercent" : 0,
  "maidens" : 0,
  "methodCaller" : "getBattingTeamAnalysis",
  "oversCount" : 3,
  "runsFromBoundaries" : 34,
  "runsFromBoundariesPercent" : 75.555557250976562,
```

Method Name: `getEventTypesPlayed`

```
{  
    "apiVersion" : "1.0.0",  
    "eventTypes" :  
        [0, 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,  
          2, 2, 2, 2, 2, 2, 3, 6, 19, 19, 20, 21, 7, 22, 8, 8, 8, 8, 8, 8, 13,  
          7, 20, 8, 8, 8, 8, 8, 8, 13, 7, 8, 8, 8, 8, 8, 10, 13, 7, 19, 8, 8,  
          8, 8  
        ],  
    "methodCaller" : "getEventTypesPlayed"  
}
```

Method Name: `getLast10Events`

```
{
  "apiVersion": "1.1.0",
  "events": [
    {
      "eventType": 8,
```

```

    "guid": "2136140f-becd-462d-998b-aca7935c3515",
    "timestamp": 1475697827
  },
  {
    "eventType": 8,
    "guid": "e81999c4-d82d-4b06-a23e-701850aaf690",
    "timestamp": 1475697827
  },
  {
    "eventType": 8,
    "guid": "efalace2-537f-49d7-ab80-5aca765fa631",
    "timestamp": 1475697827
  },
  {
    "eventType": 8,
    "guid": "c201be66-2d90-4218-a962-c30a82565844",
    "timestamp": 1475697827
  },
  {
    "eventType": 19,
    "guid": "a2d1761a-7f05-497c-b179-a643a4385529",
    "timestamp": 1475697827
  },
  {
    "eventType": 7,
    "guid": "1bb4dfad-09e2-49f4-92a4-707908531c96",
    "timestamp": 1475697827
  },
  {
    "eventType": 13,
    "guid": "77cb3324-aa3c-40ad-9eda-cd7bf39ebb37",
    "timestamp": 1475697827
  },
  {
    "eventType": 10,
    "guid": "ad422873-797a-42a1-ade7-cd38e54eec0b",
    "timestamp": 1475697827
  },
  {
    "eventType": 8,
    "guid": "15ad026e-d5a8-49e7-94af-28694249bb0d",
    "timestamp": 1475697827
  }

```

```

    },
    {
        "eventType": 8,
        "guid": "41f6b388-445a-4e87-978b-c2ddbf5966d3",
        "timestamp": 1475697827
    }
],
"methodCaller": "getLast10Events"
}

```

Get match type

Method Name: `getMatchType`

| Output Arguments | Type | What does it do |
|------------------------|--|---|
| wicketTypes | Array of Enums (Wicket Type) | The wicket types that this match type supports. |
| allowBatAgain | Boolean | Allow bat again after a wicket. |
| alwaysRebowlNoBalls | Boolean | Always rebowl no balls. |
| alwaysRebowlWides | Boolean | Always rebowl no wides. |
| capDeliveries | Boolean | Cap deliveries. |
| inning2Overs | Int | Innings 1 and 2 overs amount. |
| inning4Overs | Int | Innings 3 and 4 overs amount. |
| inningsCount | Int | Innings in this match type. |
| lastManStands | Boolean | Last man stands. |
| legalDeliveriesPerOver | Int | Legal deliveries per over. |
| matchName | String | Match name. |
| maxDeliveriesPerOver | Int | Max deliveries per over. |

| | | |
|----------------------|---------|----------------------------|
| maxOversBatting | Int | Max overs when batting. |
| maxOversBowling | Int | Max overs when bowling. |
| maxRunsBatting | Int | Max runs when batting. |
| noBallValue | Int | No ball points value. |
| playersPerTeam | Int | Players per team. |
| rebowlLastBallNoBall | Boolean | Rebowl last ball, no ball. |
| rebowlLastBallWides | Boolean | Rebowl last ball, wides. |
| rebowlLastOverNoBall | Boolean | Rebowl last over, no ball. |
| rebowlLastOverWides | Boolean | Rebowl last over, wides. |
| unlimitedLastOver | Boolean | Unlimited last over. |
| wicketIsDismissal | Boolean | Wicket is dismissal. |
| wicketValue | Int | Wicket points value. |
| wideValue | Int | Wide points value. |

```
{
  "wicketTypes":[
    1, 2, 3, 4, 5, 6, 7, 8, 9, 10
  ],
  "allowBatAgain":false,
  "alwaysRebowlNoBalls":true,
  "alwaysRebowlWides":true,
  "apiVersion":"1.1.0",
  "capDeliveries":false,
  "inning2Overs":20,
  "inning4Overs":-1,
  "inningsCount":2,
  "lastManStands":false,
  "legalDeliveriesPerOver":6,
  "matchName":"Twenty20",
  "maxDeliveriesPerOver":10,
```



```

    "maxOversBatting":-1,
    "maxOversBowling":4,
    "maxRunsBatting":-1,
    "methodCaller":"getMatchType",
    "noBallValue":1,
    "playersPerTeam":11,
    "rebowlLastBallNoBall":false,
    "rebowlLastBallWides":false,
    "rebowlLastOverNoBall":false,
    "rebowlLastOverWides":false,
    "unlimitedLastOver":false,
    "wicketIsDismissal":true,
    "wicketValue":0,
    "wideValue":1
}

```

Enum List

| Enum name | Info |
|------------------------------------|--|
| Match State | The state that the match is in. |
| Action Type | The type of action. |
| Match End Category | Who won or lost at the end of a match. |
| Wicket Type | The type of wicket. |

Enums

Match State

| Enum Value | Info |
|------------|-----------------|
| 2 | In progress. |
| 3 | Match finished. |
| 5 | Match in setup. |

| | |
|----|-------------------------------------|
| 6 | Match paused. |
| 10 | Waiting for innings. |
| 11 | Waiting for over. |
| 12 | Waiting for the facing batsman. |
| 13 | Waiting for the non-facing batsman. |
| 14 | Waiting for the bowler. |
| 15 | Match finished. |

Match End Category

| Enum Value | Info |
|------------|-----------------------------------|
| -1 | The match is not in an end state. |
| 1 | The home team won. |
| 2 | The home team lost. |
| 3 | Tied. |
| 4 | Draw. |
| 5 | Abandoned. |

Action Type

| Enum Value | Info |
|------------|----------|
| 1 | Ball. |
| 2 | Extra. |
| 3 | Wicket. |
| 4 | Penalty. |
| 5 | Retire. |
| 6 | Injured. |

| | |
|----|----------------|
| 7 | Umpire review. |
| 8 | Team review. |
| 9 | Break. |
| 10 | Delay. |

Delay type

| Enum Value | Info |
|------------|----------|
| 1 | Ground. |
| 2 | Weather. |
| 3 | Light. |
| 4 | Injury. |
| 5 | Other. |

Break type

| Enum Value | Info |
|------------|---|
| 1 | Drinks. |
| 2 | Lunch. |
| 3 | Tea. |
| 7 | Close of play. |
| 9 | Other. |
| 10 | Forced. <i>Deprecated (treat it as "other")</i> . |

Boundary Type

| Enum Value | Info |
|------------|------|
|------------|------|

| | |
|---|-------|
| 0 | None. |
| 1 | Four. |
| 2 | Six. |

Wicket Type

| Enum Value | Info |
|------------|------------------------|
| 0 | Not out. |
| 1 | Bowled. |
| 2 | Caught. |
| 3 | Leg Before wicket. |
| 4 | Stumped. |
| 5 | Run out. |
| 6 | Hit wicket. |
| 7 | Handled the ball. |
| 8 | Hit the ball twice. |
| 9 | Timeout. |
| 10 | Obstructing the field. |

Extra Type

| Enum Value | Info |
|------------|-----------|
| 0 | No extra. |
| 1 | No ball. |
| 2 | Wide. |
| 3 | Bye. |
| 4 | Leg bye. |

Penalty Type

| Enum Value | Info |
|------------|-----------|
| 0 | None. |
| 1 | Fielding. |
| 2 | Batting. |

Innings End State

| Enum Value | Info |
|------------|-----------------|
| 0 | Not ended. |
| 3 | All out. |
| 4 | Finished overs. |
| 5 | Declared. |
| 6 | Closed. |
| 7 | Forfeit. |
| 8 | Match end. |
| 9 | Abandon. |
| 10 | DLS delays. |

Wicket Type

| Enum Value | Info |
|------------|-------------------|
| 0 | Not out |
| 1 | Bowled |
| 2 | Caught |
| 3 | Leg before wicket |

| | |
|----|--------------------|
| 4 | Stumped |
| 5 | Run out |
| 6 | Hit wicket |
| 7 | Handled the ball |
| 8 | Hit the ball twice |
| 9 | Time out |
| 10 | Obstructing field |

JSON Objects List

| Method name | Info |
|---|--|
| Team Basic | Basic information about a team. |
| Player Basic | Basic information about a player. |
| Innings Stats | Stats for an innings. |
| Innings Batting Score Stats | Batting score stats for an innings. |
| Score Stats | Score stats. |
| Historical Stats | A stats snapshot in time. |
| Batsman Stats | Batsman stats. |
| Bowler Stats | Bowler stats. |
| Commentary Action | Commentary of an action. |
| Innings Scorecard | Stats to build a scorecard for an innings. |
| Action | An over action in the game. |
| Event | An event that happened in the game |

JSON Objects

Many of the API calls return various JSON objects. This section will list them.

Team Basic

This is a basic team object.

| Output Arguments | Type | What does it do |
|------------------|--------|-----------------|
| id | String | Team id. |
| serverId | String | Team server id. |
| clubServerId | String | Club server id. |
| name | String | Team name. |

Player Basic

This is a basic player object.

| Output Arguments | Type | What does it do |
|------------------|---------|---------------------------------|
| id | String | Player id. |
| serverId | String | Player server id. |
| unsure | Boolean | Is the player an unsure player. |
| name | String | Player name. |

Innings Stats

| Output Arguments | Type | What does it do |
|------------------|------|---|
| actionIndex | Int | Current action index. E.g what ball number. |
| deliveries | Int | Deliveries. |
| boundary6Count | Int | Boundary six count. |
| byesScore | Int | Byes score. |
| byesCount | Int | Byes count. |
| dotBallsCount | Int | Dot balls count. |
| dotBallsPercent | Int | Dot balls percentage. |

| | | |
|---------------------------|-------|--|
| extraScore | Int | Extra score. |
| legByesScore | Int | Leg bye score. |
| legByesCount | Int | Leg by count. |
| legalDeliveries | Int | Legal Deliveries. |
| maidenCount | Int | Maden count. |
| maidenPercent | Int | Maiden percentage. |
| noBallsScore | Int | No balls score. |
| noBallsCount | Int | No balls count. |
| overs | Int | Overs. |
| partnershipScore | Int | Partnership score. |
| partnershipDeliveries | Int | Partnership deliveries. |
| penaltiesBattingPoints | Int | Penalties batting points. |
| penaltiesBowlingPoints | Int | Penalties bowling points. |
| rpo | float | Runs per over. |
| score | Int | Score. |
| runsFromBoundaries | Int | Runs from boundaries. |
| runsFromBoundariesPercent | float | The percentage of runs that were boundaries. |
| wicketCount | Int | Wicket count. |
| wideAndNoBallsCount | Int | Wide and no ball count. |
| wideAndNoBallsPercent | Int | Wide and no ball percentage. |
| widesScore | Int | Wide score. |
| widesCount | Int | Wides count. |

Innings batting score stats

| Output Arguments | Type | What does it do |
|------------------|--|---------------------------|
| battingTeamBasic | Object (Team Basic) | Batting team. |
| inningsEndState | Enum (Innings End State) | End state of the innings. |
| inningsIndex | Int | Innings index. |
| scoreStats | Object (Score stats) | Score stats. |

Score stats

| Output Arguments | Type | What does it do |
|------------------|------|-------------------|
| legalDeliveries | Int | Legal deliveries. |
| overs | Int | Overs. |
| score | Int | Score. |
| wicketCount | Int | Wicket count. |

Historical Stats

Used to store a snapshot of the runs and wickets at that point of time.

| Output Arguments | Type | What does it do |
|------------------|------|-----------------|
| score | Int | Score. |
| wicketCount | Int | Wicket count. |

Batsman Stats

| Output Arguments | Type | What does it do |
|------------------|---|--|
| deliveriesFaced | Int | The deliveries count that go towards the batter. |
| batter | Object (Player basic) | Batter. |

| | | |
|-------------------|-----------------------------------|--|
| batterOrderIndex | Int | Order that the batter batted. |
| dotBallCount | Int | Dot ball count. |
| boundaryFourCount | Int | Count of four boundaries. |
| isDismissed | Boolean | Is dismissed. |
| overCount | Int | Overs count. |
| score | Int | Score. |
| boundarySixCount | Int | Count of six boundaries. |
| strikeRate | Int | Strike rate. |
| timeInPlay | Long | Time in play. |
| outAction | Object (Action) | The action that the player got out in. |

Bowler stats

| Output Arguments | Type | What does it do |
|---|---|---|
| legalDeliveriesBowledCount | Int | Total deliveries bowled. |
| legalDeliveriesBowled | Int | Deliveries bowled for this over. |
| legalDeliveriesBowledIncompleteOversCount | Int | Deliveries bowled that were incomplete overs. |
| average | Int | Average. |
| bowler | Object (Player Basic) | The bowler. |
| dotBallsCount | Int | Dot ball count. |
| economy | Int | Economy. |
| maidens | Int | Maidens. |
| noBallPoints | Int | No ball points. |

| | | |
|--------------|-------|----------------|
| overCount | Int | Over count. |
| score | Int | Score. |
| wicketsCount | Int | Wicket count. |
| widePoints | Int | Wide points. |
| rpo | Float | Runs per over. |

Commentary Action

| Output Arguments | Type | What does it do |
|--------------------|---|-----------------|
| id | Int | |
| actionType | Enum (Action Type) | |
| bowler | Object (Player Basic) | |
| commentary | String | |
| facingBatsman | Object (Player Basic) | |
| historicalStats | Object (Historical Stats) | |
| legalDeliveryIndex | Int | |
| overIndex | Int | |

Innings Scorecard

| Output Arguments | Type | What does it do |
|------------------|--|-----------------|
| batterListStats | Array of Objects (Batsman Stats) | |
| bowlerListStats | Array of Objects (Bowler Stats) | |
| notes | Array of Objects (Notes) | |
| powerPlays | Array of Objects (Power Play) | |

| | | |
|-------|--|--|
| stats | Object (Innings Stats) | |
|-------|--|--|

Action

| Output Arguments | Type | What does it do |
|----------------------|---|--|
| id | Int | The ID of the action. |
| type | Enum (Action Type) | Action type. |
| bowler | Object (Player Basic) | Bowler. |
| facingBatsman | Object (Player Basic) | Facing batsman |
| inningsIndex | Int | Innings index. |
| keeper | Object (Player Basic) | Keeper. |
| nonFacingBatsman | Boolean | Non facing batsman |
| overIndex | Int | The over index. |
| legalDeliveryIndex | Int | The legal delivery index. |
| ignoreStats | Boolean | Should this action be ignored (grey it out in the UI). You would ignore an action after a successful umpire/team review. |
| legalDeliveryDisplay | Int | Use when displaying the legal delivery number to the user. Do not use this in calculations. |

Ball Action

Extends from Action

| | | |
|--------------|--|--|
| boundaryType | Enum (Boundary Type) | |
|--------------|--|--|

| | | |
|-----------------------------|---------|--|
| hasPitchMaps | Boolean | |
| hasWagonWheels | Boolean | |
| pitchMapBackSquare | Int | |
| pitchMapBadBowl | Boolean | |
| pitchMapPitchSquare | Int | |
| runs | Int | |
| wagonWheelCutProportion | Float | |
| wagonWheelEllipseProportion | Float | |
| wagonWheelHeightProportion | Float | |
| wagonWheelHitAngleRadians | Float | |
| toKeeper | Boolean | |

Extra Action

Extends from Ball Action

| Output Arguments | Type | What does it do |
|------------------|-------------------------------------|--------------------|
| extraPoints | Int | Extra points. |
| extraType | Enum (Extra Type) | The type of Extra. |

Wicket Action

Extends from Extra Action

| Output Arguments | Type | What does it do |
|------------------|---|---|
| fielders | Array of Objects (Player Basic) | Fielders that helped got the player out. The first index player being the main contributor. |
| wicketType | Enum (Wicket Type) | The type of wicket. |

| | | |
|-----------|---|--------------------------|
| outPlayer | Object (Player Basic) | The batter that got out. |
|-----------|---|--------------------------|

Retire Action

Extends from Action

| Output Arguments | Type | What does it do |
|------------------|---|--------------------------|
| retiredBatsman | Object (Player Basic) | The batter that retired. |

Penalty Action

Extends from Action

| Output Arguments | Type | What does it do |
|------------------|---------------------------------------|-------------------------------|
| penaltyType | Enum (Penalty Type) | The type of penalty it was. |
| penaltyPoints | Int | The amount of penalty points. |

Event

| Output Arguments | Type | What does it do |
|------------------|-------------------------------------|--|
| eventType | Enum (Event Type) | The type of event. |
| guid | String | The unique id for the event. |
| timestamp | Int | Timestamp of when the event happened. |
| matchGuid | String | The unique id for the match. |
| clientTimestamp | Int | Device timestamp when the event was created. |
| order | Int | The event order. |

Notification Events

Every important event on CricHQ will send a notification to the connected device. For

consistency, the JSON includes `methodCaller` which is set as `lastEvent`.

Event Type

| Event Id | Event Name | Details about event |
|----------|-------------------|---|
| -1 | No event type | No match event type was set. |
| 0 | Match type set | The match type has been selected. |
| 1 | Match team set | A match team has been selected. |
| 2 | Match team player | A match player. |
| 3 | Start match | The match has been started. |
| 6 | Start innings | New innings has started. |
| 7 | Start over | A new over has started. |
| 8 | Ball | A normal ball event (dot ball, 4, 14, etc) has been played. |
| 9 | Extra ball | An extra ball event (wide, no ball, etc) has been played. |
| 10 | Wicket | A wicket ball event has been played. |
| 11 | Penalty | A penalty event has been played. |
| 12 | Retire | A retired player event has been played. |
| 13 | End over | End of the over. |
| 14 | End innings | End of the innings. |
| 16 | End match | End of the match. |
| 17 | Swap batsman | Swap the batsman in play. |
| 19 | New batsman | A new batsman. |
| 20 | New bowler | A new bowler. |
| 21 | Wicket Keeper | A new wicket keeper. |
| 22 | New Captain | A new captain. |
| 25 | Undo | Undo last event. |

| | | |
|----|--------------------------|---|
| 26 | Audit remove | Removed an event. |
| 28 | Audit add | Add a new event anywhere in the match. |
| 29 | Audit Modify | Modified an event. |
| 30 | Add note | Added a note. |
| 31 | Remove note | Remove a note |
| 32 | Add pause note | Added a pause note. |
| 33 | Add power play | Power play has started |
| 34 | Remove power play | Removed power play. |
| 35 | Replace player | Replace player with another player. |
| 40 | Resume match | Resumes the match. |
| 41 | Audit retire modify | Modified a retired event. |
| 42 | Outfield speed | The outfield speed. High-performance event. |
| 43 | Bounce level | The bounce level. High-performance event. |
| 44 | Turn level | The turn level. High-performance event. |
| 45 | Update player | A player update. E.g a name change. |
| 46 | Field aggression | Field aggression. High-performance event. |
| 47 | Boundary rope regression | Boundary rope regression. High-performance event. |
| 48 | Weather | The weather. High-performance event. |
| 49 | Player of the match | The player of the match. High-performance event. |
| 50 | Set toss | Toss was set. |
| 51 | Super over | Not implemented yet. |
| 52 | Set run in | Bowler running in. High-performance event. |
| 53 | Set danger | Ball danger. High-performance event. |
| 54 | Set batting order | Batting order. |
| 55 | Umpire review | Umpire review. High-performance event. |

| | | |
|----|------------------|--|
| 56 | Team Review | Team Review. High-performance event. |
| 57 | Injured player | A player was injured. High-performance event. |
| 58 | Uninjured player | A player is no longer injured. High-performance event. |
| 59 | Review outcome | The outcome of the review. High-performance event. |

Note: New events can be added at any time. Make sure you support ignoring of unsupported new events.

Example JSON

If a new match was just started. A “start match” event would send with the API version.

```
{
  "eventType": 3,
  "methodCaller": "lastEvent",
  "apiVersion": "1.0.0"
}
```

If someone pressed the undo button. It will remove the last event.

```
{
  "eventType": 25,
  "methodCaller": "lastEvent",
  "apiVersion": "1.0.0"
}
```

Errors

| Error name | What is the error |
|----------------------------|----------------------------------|
| unsupportedVersion | Unsupported API version. |
| unsupportedMethod | Unsupported method. |
| unsupportedMethodParameter | Unsupported method parameter. |
| deprecatedVersion | The version used is deprecated. |
| missingParameter | The method parameter is missing. |

Unsupported Version

If an API version was sent and not supported an error message would send.

```
{
  "methodCaller": "MethodCaller",
  "error": "unsupportedVersion",
  "errorVersion": "0.9",
  "apiVersion": "1.0.0"
}
```

Unsupported methods

If a method was sent and not supported an error message would send.

```
{
  "methodCaller": "MethodCaller",
  "error": "unsupportedMethod",
  "apiVersion": "1.0.0"
}
```

Unsupported Method Parameter

If a method parameter was sent and not supported an error message would send.

```
{
  "methodCaller": "MethodCaller",
  "error": "unsupportedMethodParameter",
  "errorParameter": "ParameterName",
  "apiVersion": "1.0.0"
}
```

Deprecated Version

The version used is deprecated and will be removed in a future version.

```
{
  "methodCaller": "MethodCaller",
  "error": "deprecatedVersion",
  "errorVersion": "0.9",
  "apiVersion": "1.0.0"
}
```

Missing Method Parameter

If a method parameter was missing, this error message would send.

```
{
  "methodCaller": "MethodCaller",
  "error": "missingParameter",
  "errorParameter": "ParameterName",
  "apiVersion": "1.0.0"
}
```

No Data

If a method is called but unable to return data (end/start of match) it will return this error.

```
{
  "methodCaller": "MethodCaller",
  "error": "noData",
  "apiVersion": "1.0.0"
}
```

Broken Json

If broken Json or no Json was sent, this error message would send.

```
{
  "brokenJson": "-r03w-ti 9dxk bs",
  "error": "brokenJson",
  "apiVersion": "1.0.0"
}
```