

UOF - Probabilities and cashout

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The probability endpoints can be found near the bottom of our self-service documentation.

- For the production environment: <https://iodocs.betradar.com/unifiedfeed>
- For the integration environment: <https://iodocs.betradar.com/ufstaging>

Currently, the cashout service is available for matches that fit the following criteria:

The match is for a cashout supported sport:

Soccer, Baseball, Basketball, Tennis, Table Tennis, Badminton, Volleyball, Beach Volleyball, Squash, Handball, Ice Hockey, Field Hockey

- The match is active in Live Odds (and you have Live Odds access to this match): Live Odds is offered for this match; odds are enabled 15 minutes before match start
- The match is not older than 6 days
- Test clients/accounts do not have access to the probability/cashout API

Matches that **do not** fit the above criteria will **not** be available in the cashout service.

The purpose of the probabilities is to give Betradar clients a way to offer their customers the option to cash out on bets that have already been placed, but are not settled yet. This is done in order to increase turnover. To cash out a bet, the client needs to know the current probability of the outcomes, so that they can offer a reasonable return for a customer that wants to cash out a bet before the bet can be definitively settled. To do this, our probabilities service offers probabilities for all active markets and all markets that have previously been offered for the match.

Currently we offer probabilities down to 1e-10 (0.0000000001), and markets with a lower probability than this will be ignored. The feed will produce a message that has a valid odds value, but the probability value will be missing from this market outcome.

XML example

```
<market favorite="1" status="1" id="435" specifier="framenr=4">
  <outcome id="1" odds="1.7" probabilities="0.54865 active="1"/>
  <outcome id="2" odds="3.8" probabilities="0.22432 active="1"/>
  <outcome id="3" odds="20.0" active="1"/> ...Probability lower than 1e-
10...
</market>
```

Note: The normal odds_change message include probabilities for the markets offered in the odds_change message. Customers are strongly recommended to cache and use probabilities where available for speed and efficiency reasons. The probabilities API is primarily intended for market lines with low likelihood that are currently not offered in the odds_change message (e.g. a totals line with a total far from the current most likely total).

Probability API

In order to offer cashout probabilities, we provide a cashout API where the clients can request the cashout probabilities for all markets for all active matches.

Endpoint	Path Parameters	Description
/probabilities/sr:match:{matchid}	Match id	Retrieve all probabilities available for the specified match.
/probabilities/sr:match:{matchid}/{market}/specifiers	Match id, market id, market specifiers	Retrieve the probabilities for the specified market line.
/probabilities/sr:match:{matchid}/{market}	Match id, market id, market specifiers	Retrieve all the probabilities for all the market lines for the specified match and market id.

XML content

The following table has an overview over what elements are present in the Cashout XML response.

Element	Description	Attribute	Description	Possible values
cashout	Top level element	product	What product the probabilities come from	Currently only 1 for Live Odds
		event_id	Match id	The match id in urn format, sr:match:{matchid}
		timestamp	When the message was created	The number of milliseconds since January 1, 1970 UTC
sport_event_status	Subelement of cashout. Has attributes for the sport event's current status. See more in the dedicated section for more information about this sub element.	status	The current betstatus	<ul style="list-style-type: none"> • 0 (match not started) • 1 (betstart, also early betstart if the bookmaker has enabled early betstart in the xml config) • 2 (betstop) • 3 (match is ended) • 4 (match is ended and all markets are cleared)

		match_status	The current match status	Soccer <ul style="list-style-type: none"> • 0 (not started) • 6 (first half) • 7 (second half) • 31 (halftime) • 32 (awaiting ot) • 33 (ot halftime) • 34 (awaiting penalties) • 41 (first half ot) • 42 (second half ot) • 50 (penalty shooting) • 80 (interrupt ed) • 90 (abando ned) • 100 (ended) • 110 (after ot) • 120 (after penalties)
odds	Subelement of cashout. This element contains all the active markets. The odds element with market probabilities are available also when the match is on betstop.			
market	Subelement of odds. Contains market information. The markets are only added to the odds element if the match is on betstart.	id	Unified feed market id	Integer
		specifiers	Unified feed market specifiers	String
		status	Market status	<ul style="list-style-type: none"> • 0 (inactive) • 1 (active) • -3 (cleared) • -4 (canceled)

		cashout_status	The cashout status of the market	<ul style="list-style-type: none"> • 1 AVAILABLE (available for cashout) • -1 UNAVAILABLE (temporarily unavailable for cashout) • -2 CLOSED (permanently unavailable for cashout)
outcome		id	Unified feed outcome id	Integer
		probabilities	Outcome probability	Raw model output. Not rounded.
		active	If the outcome is active	<ul style="list-style-type: none"> • 1 (active) • 0 (inactive)

Cashout status

Each market element will have a cashout_status attribute determining if the market is available for cashout or not. The value of the cashout_status attribute will be determined by the following rules, applied in prioritized order:

Id	Name	Description
-2	Closed	Market is settled or canceled.
1	Available	Market is active and match is on betstart or early betstart if the bookmaker has early betstarts enabled in his configuration
-1	Unavailable	Default status. A market will be unavailable in cashout unless any of the rules above apply.

A market will only contain cashout probabilities if the cashout status is Available (cashout_status="1").

XML example

```
<cashout product="1" event_id="sr:match:10383187" timestamp="1488376222936">
  <sport_event_status status="1" match_status="6"/>
  <odds>
    <market status="1" cashout_status="1" id="20" specifiers="total=1.5">
      <outcome id="425" probabilities="0.6163236925215048" active="0"/>
      <outcome id="426" probabilities="0.38367630747849524" active="0"/>
    </market>
    <market status="1" cashout_status="1" id="29">
      <outcome id="41" probabilities="0.5761726108027806" active="0"/>
      <outcome id="42" probabilities="0.4238273891358624" active="0"/>
    </market>
    <market status="1" cashout_status="1" id="18" specifiers="total=3">
      <outcome id="114" probabilities="0.6366925169830813" active="0"/>
      <outcome id="115" probabilities="0.36330748301691873" active="0"/>
    </market>
  </odds>
</cashout>
```

Error messages

This section covers what error messages the server will reply with if something went wrong or some of the provided information is incorrect, etc.

Symptom	Reason
XML Message with response code Forbidden	No authentication token
XML Message with response code Forbidden	Invalid authentication token
500 Internal server error	Error processing the request
404 Not Found	Trying to access resource that does not exist
403 Forbidden	Bookmaker is blocked from accessing that resource

Include partly refundable probabilities

If you enable this configuration it will allow the possibility to include the probabilities of asian handicap markets (i.e. markets with x.0, x.25 and x.75 lines), both for asian handicap, asian total and no bet markets (draw no bet, home no bet, etc.).

Asian outcomes refer to the probabilities for:

- win probabilities
- lose probabilities
- refund probabilities
- half win probabilities
- half lose probabilities

XML example

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<cashout product="1" event_id="sr:match:20005429" timestamp="
1571216072115">
  <sport_event_status status="0" match_status="0"/>
  <odds>
    <market status="-1" cashout_status="-1" id="16" specifiers="hcp=-
1.25">
      <outcome id="1715" probabilities="0.5553225068056259"
win_probabilities="0.3862513744416066" lose_probabilities="
0.39633879985491377" half_win_probabilities="0.21740974186924522"
half_lose_probabilities="0.0" active="1"/>
      <outcome id="1714" probabilities="0.4446774931943741"
win_probabilities="0.39633879985491377" lose_probabilities="
0.3862513744416066" half_win_probabilities="0.0"
half_lose_probabilities="0.21740974186924522" active="1"/>
    </market>
    <market status="-1" cashout_status="-1" id="16" specifiers="hcp=-
1">
      <outcome id="1715" probabilities="0.4935550505882632"
win_probabilities="0.3862513744416066" lose_probabilities="
0.39633879985491377" refund_probabilities="0.21740974186924522" active="
1"/>
      <outcome id="1714" probabilities="0.5064449494117368"
win_probabilities="0.39633879985491377" lose_probabilities="
0.3862513744416066" refund_probabilities="0.21740974186924522" active="1"
/>
    </market>
    <market status="-1" cashout_status="-1" id="11">
      <outcome id="4" probabilities="0.8575649164628653"
win_probabilities="0.6137485417241589" lose_probabilities="
0.10193901724880175" refund_probabilities="0.2843123571928049" active="1"
/>
      <outcome id="5" probabilities="0.14243508353713483"
win_probabilities="0.10193901724880175" lose_probabilities="
0.6137485417241589" refund_probabilities="0.2843123571928049" active="1"
/>
    </market>
    <market status="-1" cashout_status="-1" id="16" specifiers="hcp=-
0.75">
      <outcome id="1715" probabilities="0.4333596828321439"
win_probabilities="0.3862513744416066" lose_probabilities="
0.39633879985491377" half_win_probabilities="0.0"
half_lose_probabilities="0.21740974186924522" active="1"/>
      <outcome id="1714" probabilities="0.5666403171678561"
win_probabilities="0.39633879985491377" lose_probabilities="
0.3862513744416066" half_win_probabilities="0.21740974186924522"
half_lose_probabilities="0.0" active="1"/>
    </market>
    <market status="0" cashout_status="-1" id="1"/>
  </odds>
</cashout>
```

Please Note:

The configuration "Enable market refund probabilities" is accessible via <https://config.betradar.com/feed-options> and is currently only applied for the sport soccer.

Click the links in the box below to download additional information:

File

Modified

PDF File Cashout_Function_201119 .pdf

Microsoft Excel Spreadsheet Cashout Algorithm_051218.xlsx

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