SVENSKA SPEL

Issuer	Date	Document number	Classification (Internal / External)
Jonas Karlsson	2019-02-04		External
Responsible / approved	Revision number	Data reference	
	5	External API	
Distribution			

TECHNICAL DESCRIPTION OVER EXTERNAL API:S

CONTENT

DOCUMENT CHANGE HISTORY

Revision no	Date	Affected Pages	Reason	Sign.
1	2017-09-05	All	Initial issue	JABW
2	2017-10-24	All concerning Lången	Added Lången	OABP
3	2018-04-25	All	Update references	JABW
4	2018-10-16	All	Added Sportkrysset	JABW
5	2019-02-04	All	Compleate revision so that documentation is up to date.	JABW

1 INTRODUCTION

1.1 Purpose

This document is intended to explain how to fetch information stored in the information systems used in Svenska Spel. It is possible to fetch information regarding draws, forecasts and results for products provided by Svenska Spel.

In order to be able to fetch information, the consumer of the information is required to use the communication protocol Hypertext Transfer Protocol Secure (Wikipedia, HTTPS, 2018) and send a GET to the desired url for example `https://api.www.svenskaspel.se/external/draw/stryktipset/draws?accesskey=madeUp AccessKey`.

All api:s must include the parameter accesskey. Calls without the parameter will fail with error code 100005.

1.2 Scope

This document is a technical specification. If you have any questions regarding agreements, copyright and so forth, please contact Andréas Johansson using phone number 010-120 38 43 or send him an email using andreas.johansson@svenskaspel.se.

1.3 Akronyms and Definitions

API is an abbreviation for Application Programming Interface (Wikipedia, Application programming interface, 2017) that describes an address on the internet, also called a URL, where mainly computers can fetch structured data.

JSON is an abbreviation for JavaScript Object Notation (Wikipedia, JSON, 2017). It is an open-standard file format that uses human-readable text to transmit data.

A draw defined by Svenska Spel is either a betting pool (Wikipedia, Betting pool, 2017) with a fixed price plan or sports betting (Wikipedia, Sports betting, 2017). The draw has several states and a draw is confined within a period. Usually, the draw is first defined, then the draw is open and bets can be entered, then the draw is closed and finally finalized. A result is distributed when the draw is finalized and the outcome of the draw is determined.

Svenska Spel uses REST (Wikipedia, REST, 2017) as a principle when the design of the api:s implemented.

2 External API:s

Svenska Spel is using JSON (Wikipedia, JSON, 2017) in order to provide information using the following generic url:s:

`https://api.www.svenskaspel.se/external/draw/jackpot`

`https://api.www.svenskaspel.se/external/draw/{productName}/draws`

`https://api.www.svenskaspel.se/external/draw/{ productName }/draws/{drawNumber}`

`https://api.www.svenskaspel.se/external/draw/{ productName }/draws/result`

`https://api.www.svenskaspel.se/external/draw/{ productName }/draws/{drawNumber}/result`

`https://api.www.svenskaspel.se/external/draw/{ productName }/draws/{drawNumber}/forecast`

`https://api.www.svenskaspel.se/external/draw/{ productName }/draws/{drawNumber}/upcoming`

The parameters in these generic api:s are product name, for example lotto and draw number. The draw number is a numeric value representing a draw number, for example 1361. If no draw number is provide then the api gives information about the current open draw.

2.1 Supported products

Svenska Spel supports in the api:s the following products Bomben, Challenge, Eurojackpot, Europatipset, Jackpot, Joker, Keno, Lången, Lotto, Lotto lördag, Lotto onsdag, Måltipset, Matchen, Oddset, Powerplay, Sportkrysset, Stryktipset, Topptipset, Topptipset Europa, Topptipset family, Topptipset stryk and Vikinglotto.

2.2 What are Topptipset Family, Topptipset Stryk and Topptipset Europa?

Topptipset is a product where the idea of the product is to predict the outcome of eight matches. These eight matches can be based upon Stryktipset or Europatipset.

The api:s that concerns Topptipset and are based upon Stryktipset are described under Topptipset Stryk. An example of these api:s is
`https://api.www.svenskaspel.se/external/draw/topptipsetstryk/draws`

If Topptipset is based on Europatipset, then the api:s concerning this variant are described under Topptipset Europa. An example of these api:s is
`https://api.www.svenskaspel.se/external/draw/topptipseteuropa/draws`.

Topptipset Family is an product where current information regarding Topptipset based on both Stryktipset and Europatipset are included in the same api:s. An example of these api:s is `https://api.www.svenskaspel.se/external/draw/topptipsetfamily/draws`.

2.3 What is Sportkrysset?

Sportjoker a new product that works the same way as current Joker and can be played together with Stryktipset and Måltipset. It will be available to customers on the first of January 2019.

3 API:S USED TO FETCH DRAWS

Listed below are all api:s the Svenska Spel has regarding draws for different products.

3.1.1 Bomben

`https://api.www.svenskaspel.se/external/draw/bomben/draws`

`https://api.www.svenskaspel.se/external/draw/bomben/draws/{drawNumber}`

`https://api.www.svenskaspel.se/external/draw/bomben/draws/{drawNumber}/allodds`
Get odds for all combinations in a Bomben draw for a specific drawnumber.

`https://api.www.svenskaspel.se/external/draw/bomben/draws/upcoming`

3.1.2 Challenge

`https://api.www.svenskaspel.se/external/draw/challenge/draws`

`https://api.www.svenskaspel.se/external/draw/challenge/draws/{drawNumber}`

`https://api.www.svenskaspel.se/external/draw/challenge/draws/upcoming`

3.1.3 Eurojackpot

`https://api.www.svenskaspel.se/external/draw/eurojackpot/draws`

`https://api.www.svenskaspel.se/external/draw/eurojackpot/draws/{drawNumber}`

3.1.4 Europatipset

`https://api.www.svenskaspel.se/external/draw/europatipset/draws`

`https://api.www.svenskaspel.se/external/draw/europatipset/draws/{drawNumber}`

`https://api.www.svenskaspel.se/external/draw/europatipset/draws/upcoming`

3.1.5 Jackpot

`https://api.www.svenskaspel.se/external/draw/jackpot`

3.1.6 Keno

`https://api.www.svenskaspel.se/external/draw/keno/draws`

`https://api.www.svenskaspel.se/external/draw/keno/draws/{drawNumber}`

3.1.7 Lången

`https://api.www.svenskaspel.se/external/draw/langen/draws`

`https://api.www.svenskaspel.se/external/draw/langen/draws/{drawNumber}`

`https://api.www.svenskaspel.se/external/draw/langen/draws/upcoming`

Both these API:s support a page argument since the draws for Lången have hundreds of events. Each page contains up to 100 events and first page, which is default of no page argument is given, has number 0 (zero). The response will tell if more pages are available and if so can be fetched by increasing the current page number by one. This is noted by the "morePages" field in the response which can be `true/false`.

For example:

`https://api.www.svenskaspel.se/external/draw/langen/draws?page=0&accesskey=madeUpAccessKey` – will get the first 100 events, number 1 to 100, of the current draw and yields the same response as if the page argument was omitted.

`https://api.www.svenskaspel.se/external/draw/langen/draws?page=1&`
`accesskey=madeUpAccessKey` – will get events 101 to 200 of the current draw and is only available if the previous response had the `"morePages"` field set to `true`.

3.1.8 Lotto

`https://api.www.svenskaspel.se/external/draw/lotto/draws`

3.1.9 Lotto lördag

`https://api.www.svenskaspel.se/external/draw/lottosaturday/draws/{drawNumber}`

3.1.10 Lotto onsdag

`https://api.www.svenskaspel.se/external/draw/lottowednesday/draws/{drawNumber}`

3.1.11 Måltipset

`https://api.www.svenskaspel.se/external/draw/maltipset/draws`

`https://api.www.svenskaspel.se/external/draw/maltipset/draws/{drawNumber}`

`https://api.www.svenskaspel.se/external/draw/maltipset/draws/upcoming`

3.1.12 Matchen

`https://api.www.svenskaspel.se/external/draw/matchen/draws`

`https://api.www.svenskaspel.se/external/draw/matchen/draws/{drawNumber}`

`https://api.www.svenskaspel.se/external/draw/matchen/draws/{drawNumber}/`
`oddslist`

`https://api.www.svenskaspel.se/external/draw/matchen/draws/{drawNumber}/`
`allodds`

`https://api.www.svenskaspel.se/external/draw/matchen/draws/upcoming`

`https://api.www.svenskaspel.se/external/draw/matchen/bydraws`

3.1.13 Oddset

Oddset differs from the other products in that sense that the input parameters are different.

`https://api.www.svenskaspel.se/external/draw/oddset/draws`

Use this API in order to get all open draws by Oddset. It is possible to fetch all draws, all draws related to live events or regular draws. Oddset draws have a parameter called offset. Think about the response from this api as a list where the first item in the list has the number 1. In order to fetch the items starting from another item in the list, the offset parameter is used. Use it together with the parameter count in order to enable pagination.

For example:

`https://api.www.svenskaspel.se/external/draw/oddset/draws?offset=10&count=10&`
`accesskey=madeUpAccessKey`

The third parameter is category. If parameter 'category' is excluded, both live draws and regular draws are fetch. If parameter 'category' is equal to 1, the regular draws are fetched. If parameter 'category' is equal to 2, the live draws are fetched.

For example:

`https://api.www.svenskaspel.se/external/draw/oddset/draws?offset=10&count=10&`
`category=1&accesskey= madeUpAccessKey`

`https://api.www.svenskaspel.se/external/draw/oddset/draws`

```
https://api.www.svenskaspel.se/external/draw/oddset/draws/{drawNumber}
```

```
https://api.www.svenskaspel.se/external/draw/oddset/draws/byleague/{leagueId}
```

This API is also different in regards to its parameters. The parameters count and offset are here as well, but also leagueId and gameDay. The leagueId is an integer representing the id of the league, and gameDay is a string representing a date in the format of YYYY-MM-DD.

For example:

```
https://api.www.svenskaspel.se/external/draw/oddset/draws/byleague/
1008146?offset=2&count=10&gameDay=2017-09-05&accesskey=madeUpAccessKey
```

```
https://api.www.svenskaspel.se/external/draw/oddset/draws/byteam
```

This is also a bit different from the other api:s regarding draws. It does not have the parameters count and offset, but instead it has four parameters and all are required.

The parameters homeTeamId, awayTeamId and leagueId represent their name, and matchStartTime is a string representing the start time of the event in the following format YYYY-MM-DD hh:mm.

For example:

```
https://api.www.svenskaspel.se/external/draw/oddset/draws/
byteam?homeTeamId=1007551&awayTeamId=1004831&leagueId=1008146&matchStartTime=20
17-08-31%2007%3A00&accesskey=madeUpAccessKey
```

3.1.14 Powerplay

```
https://api.www.svenskaspel.se/external/draw/powerplay/draws
```

```
https://api.www.svenskaspel.se/external/draw/powerplay/draws/{drawNumber}
```

```
https://api.www.svenskaspel.se/external/draw/powerplay/draws/upcoming
```

3.1.15 Stryktipset

```
https://api.www.svenskaspel.se/external/draw/stryktipset/draws
```

```
https://api.www.svenskaspel.se/external/draw/stryktipset/draws/{drawNumber}
```

```
https://api.www.svenskaspel.se/external/draw/stryktipset/draws/upcoming
```

3.1.16 Topptipset

```
https://api.www.svenskaspel.se/external/draw/topptipset/draws
```

```
https://api.www.svenskaspel.se/external/draw/topptipset/draws/{drawNumber}
```

```
https://api.www.svenskaspel.se/external/draw/topptipset/draws/upcoming
```

3.1.17 Topptipset Europa

```
https://api.www.svenskaspel.se/external/draw/topptipseteuropa/draws
```

```
https://api.www.svenskaspel.se/external/draw/topptipseteuropa/draws/
{drawNumber}
```

```
https://api.www.svenskaspel.se/external/draw/topptipseteuropa/draws/
upcoming
```

3.1.18 Topptipset Family

```
https://api.www.svenskaspel.se/external/draw/topptipsetfamily/draws
```

Title
Consuming API:s

Date
2019-02-04

Rev no
5

Page
9 (13)

SVENSKA SPEL

3.1.19 Topptipset Stryk

```
https://api.www.svenskaspel.se/external/draw/topptipsetstryk/draws
https://api.www.svenskaspel.se/external/draw/topptipsetstryk/draws/{drawNum}
https://api.www.svenskaspel.se/external/draw/topptipsetstryk/draws/upcoming
```

3.1.20 Vikinglotto

```
https://api.www.svenskaspel.se/external/draw/vikinglotto/draws
https://api.www.svenskaspel.se/external/draw/vikinglotto/draws/{drawNumber}
```

4 API:S FOR FETCHING FORECASTS

A forecast defined by Svenska Spel is a prediction of a preliminary win plan for different products. They are all based on draw number for different products.

4.1.1 Bomben

```
https://api.www.svenskaspel.se/external/draw/bomben/draws/{drawNumber}/forecast
```

4.1.2 Challenge

```
https://api.www.svenskaspel.se/external/draw/challenge/draws/{drawNumber}/
forecast
```

4.1.3 Europatipset

```
https://api.www.svenskaspel.se/external/draw/europatipset/draws/{drawNumber}/
forecast
```

4.1.4 Måltipset

```
https://api.www.svenskaspel.se/external/draw/maltipset/draws/{drawNumber}/
forecast
```

4.1.5 Matchen

```
https://api.www.svenskaspel.se/external/draw/matchen/draws/{drawNumber}/
forecast
```

4.1.6 Powerplay

```
https://api.www.svenskaspel.se/external/draw/powerplay/draws/{drawNumber}/
forecast
```

4.1.7 Stryktipset

```
https://api.www.svenskaspel.se/external/draw/stryktipset/draws/{drawNumber}/
forecast
```

4.1.8 Topptipset

```
https://api.www.svenskaspel.se/external/draw/topptipset/draws/{drawNumber}/
forecast
```

4.1.9 Topptipset Europa

```
https://api.www.svenskaspel.se/external/draw/topptipseteuropa/draws/
{drawNumber}/forecast
```

4.1.10 Topptipset Stryk

```
https://api.www.svenskaspel.se/external/draw/topptipsetstryk/draws/
{drawNumber}/forecast
```

5 API:S FOR RESULTS

The different draws for the different products will have a result once the draw is finalized.

5.1.1 Bomben

`https://api.www.svenskaspel.se/external/draw/bomben/draws/{drawNumber}/result`

`https://api.www.svenskaspel.se/external/draw/bomben/draws/result`

5.1.2 Challenge

`https://api.www.svenskaspel.se/external/draw/challenge/draws/{drawNumber}/result`

`https://api.www.svenskaspel.se/external/draw/challenge/draws/result`

5.1.3 Eurojackpot

`https://api.www.svenskaspel.se/external/draw/eurojackpot/draws/{drawNumber}/result`

`https://api.www.svenskaspel.se/external/draw/eurojackpot/draws/result`

5.1.4 Europatipset

`https://api.www.svenskaspel.se/external/draw/europatipset/draws/{drawNumber}/result`

`https://api.www.svenskaspel.se/external/draw/europatipset/draws/result`

5.1.5 Joker

`https://api.www.svenskaspel.se/external/draw/joker/draws/resultbydate/{resultDate}`

The result date has the format yyyy-mm-dd, for example 2018-10-16.

5.1.6 Keno

`https://api.www.svenskaspel.se/external/draw/keno/draws/{drawNumber}/result`

`https://api.www.svenskaspel.se/external/draw/keno/draws/result`

5.1.7 Lången

`https://api.www.svenskaspel.se/external/draw/langen/draws/{drawNumber}/result`

`https://api.www.svenskaspel.se/external/draw/langen/draws/result`

Both these API:s support the page argument in exacly the same way as described in the draw section of Lången, see 3.1.7.

5.1.8 Lotto

`https://api.www.svenskaspel.se/external/draw/lotto/draws/result`

5.1.9 Lotto lördag

`https://api.www.svenskaspel.se/external/draw/lottosaturday/draws/{drawNumber}/result`

5.1.10 Lotto onsdag

`https://api.www.svenskaspel.se/external/draw/lottowednesday/draws/{drawNumber}/result`

5.1.11 Måltipset

```
https://api.www.svenskaspel.se/external/draw/maltipset/draws/{drawNumber}/
result
```

```
https://api.www.svenskaspel.se/external/draw/maltipset/draws/result
```

5.1.12 Matchen

```
https://api.www.svenskaspel.se/external/draw/matchen/draws/{drawNumber}/result
```

```
https://api.www.svenskaspel.se/external/draw/matchen/draws/result
```

5.1.13 Powerplay

```
https://api.www.svenskaspel.se/external/draw/powerplay/draws/{drawNumber}/
result
```

```
https://api.www.svenskaspel.se/external/draw/powerplay/draws/result
```

5.1.14 Sportkrysset

```
https://api.www.svenskaspel.se/external/draw/sportkrysset/draws/resultbydate/
{resultDate}
```

The result date has the format yyyy-mm-dd, for example 2018-10-16.

5.1.15 Stryktipset

```
https://api.www.svenskaspel.se/external/draw/stryktipset/draws/{drawNumber}/
result
```

```
https://api.www.svenskaspel.se/external/draw/stryktipset/draws/result
```

5.1.16 Topptipset

```
https://api.www.svenskaspel.se/external/draw/topptipset/draws/{drawNumber}/
result
```

```
https://api.www.svenskaspel.se/external/draw/topptipset/draws/result
```

5.1.17 Topptipset Europa

```
https://api.www.svenskaspel.se/external/draw/topptipseteuropa/draws/
{drawNumber}/result
```

```
https://api.www.svenskaspel.se/external/draw/topptipseteuropa/draws/result
```

5.1.18 Topptipset Family

```
https://api.www.svenskaspel.se/external/draw/topptipsetfamily/draws/result
```

5.1.19 Topptipset Stryk

```
https://api.www.svenskaspel.se/external/draw/topptipsetstryk/draws/{drawNumber}
/result
```

```
https://api.www.svenskaspel.se/external/draw/topptipsetstryk/draws/result
```

5.1.20 Vikinglotto

```
https://api.www.svenskaspel.se/external/draw/vikinglotto/draws/{drawNumber}/
result
```

```
https://api.www.svenskaspel.se/external/draw/vikinglotto/draws/result
```

6 References

Wikipedia. (2017, 09 04). *Application programming interface*. Retrieved from Wikipedia: https://en.wikipedia.org/wiki/Application_programming_interface

Wikipedia. (2017, 09 05). *Betting pool*. Retrieved from Wikipedia: https://en.wikipedia.org/wiki/Betting_pool

Wikipedia. (2017, 09 04). *JSON*. Retrieved from Wikipedia: https://en.wikipedia.org/wiki/JSON

Wikipedia. (2017, 09 05). *REST*. Retrieved from Wikipedia: https://en.wikipedia.org/wiki/Representational_state_transfer

Wikipedia. (2017, 09 05). *Sports betting*. Retrieved from Wikipedia: https://en.wikipedia.org/wiki/Sports_betting

Wikipedia. (2018, 10 16). *HTTPS*. Retrieved from Wikipedia: https://en.wikipedia.org/wiki/HTTPS