



## Autochartist API Specification

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## Introduction

The Autochartist API consists of a library of functions that enables a program or individual to request patterns (chart patterns, Fibonacci patterns etc), and request or set data associated with patterns.

## Assumptions

It is assumed that the individual reading this document has an intermediate knowledge of HTTP, the Internet and XML.

## Communication Protocols

All requests are made via HTTP POST or GET methods.

All responses will be XML based.

## Response limitations

For all pattern responses, at most 50 patterns per category/type will be returned per request.

## Document Definitions

1. All request parameters that are underlined and in red, are required parameters
2. All parameters in orange are optional parameters that are dependent on the parameters preceding it.
3. All request parameters and values are case-insensitive.
4. Requests can be issued either via an HTTP GET method or an HTTP POST method.
5. [server] in requests indicate the server specified to the user/broker, by Autochartist.
6. [broker] in requests indicate the name of the user/broker as specified by Autochartist.

# API Functions

## 1. Authentication

### Functionality

The Authentication entry point will authenticate the requestor with the Autochartist platform.

### Request

The following request options are available:

---

**`http[s]://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=authenticate&accountserver=XXX&terminalserver=XXX&language=XXX`**

---

### Request Definitions

Language: Specifies the language that all data needs to be translated to

Japanese

Russian

English

French

Italian

Swiss

German

Portuguese

Arabic

Spanish

Chinese

Korean

AccountServer: Metatrader-specific required parameter to validate the account against the relevant Account Server.

TerminalServer: Metatrader-specific required parameter to validate the account against the relevant Terminal Server.

## Response

The following XML will be returned:

---

```
<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <Authentication>
    <sessionid>XXX</sessionid>
    <errormessage>XXX</errormessage>
  </Authentication>
</AutochartistAPI>
```

---

## Response Definition

SessionID: This is a unique identification that persists as long as the session is active. A zero (0) will be returned if the authentication processes was unsuccessful.

ErrorMessage: If an error occurred, a message detailing the failure will be returned.



## 2. Retrieving Patterns

### Functionality

The pattern retrieval entry point will retrieve a set number of patterns, based upon a list of criteria specified in the request.

### Request

The following request options are available.

Chart Pattern request if no authentication took place previously:

---

```
http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=chartpatterns&quality=000&length=000&patterntype=000&enddate=YYYY-MM-dd HH:mm:ss&direction=000&initialtrend=000&clarity=000&uniformity=000&breakoutstr=000&trend=XXX&resultuid=000&symbol=XXX&exchange=XXX&interval=000&completed=000&emerging=000&language=XXX&timezoneoffset=000&maxhits=000&option=XXX
```

---

Chart Pattern request if the user is already authenticated:

---

```
http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=chartpatterns&quality=000&length=000&patterntype=000&enddate=YYYY-MM-dd HH:mm:ss&direction=000&initialtrend=000&clarity=000&uniformity=000&breakoutstr=000&trend=XXX&resultuid=000&symbol=XXX&exchange=XXX&interval=000&completed=000&emerging=000&timezoneoffset=000&maxhits=000&option=XXX
```

---

Fibonacci Request if no authentication took place:

---

```
http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=fibonaccipatterns&quality=000&length=000&patterntype=000&enddate=YYYY-MM-dd HH:mm:ss&direction=000&clarity=000&timesymmetry=000&pricesymmetry=000&resultuid=000&symbol=XXX&exchange=XXX&interval=000&completed=000&emerging=000&language=XXX&timezoneoffset=000&maxhits=000&option=XXX
```

---

Fibonacci request if the user is already authenticated:

---

**http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=fibonaccipatterns&quality=000&length=000&patterntype=000&enddate=YYYY-MM-dd HH:mm:ss&direction=000&clarity=000&timesymmetry=000&pricesymmetry=000&resultuid=000&symbol=XXX&exchange=XXX&interval=000&completed=000&emerging=000&timezoneoffset=000&maxhits=000&option=XXX**

---

Horizontal Support/Resistance request if no authentication took place:

---

**http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=keylevelspatterns&quality=000&length=000&patterntype=000&enddate=YYYY-MM-dd HH:mm:ss&resultuid=000&symbol=XXX&exchange=XXX&interval=000&completed=000&emerging=000&language=XXX&timezoneoffset=000&maxhits=000&option=XXX**

---

Horizontal Support/Resistance request if the user is already authenticated:

---

**http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=keylevelspatterns&quality=000&length=000&patterntype=000&enddate=YYYY-MM-dd HH:mm:ss&resultuid=000&symbol=XXX&exchange=XXX&interval=000&completed=000&emerging=000&timezoneoffset=000&maxhits=000&option=XXX**

---

Powerstats request if no authentication took place:

---

**http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=powerstats&symbol=XXX&exchange=XXX&language=XXX&timezoneoffset=000**

---

Powerstats request if the user is already authenticated:

---

**http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=powerstats&symbol=XXX&exchange=XXX&timezoneoffset=000**

---

<u>Field</u>	<u>Type</u>	<u>Description</u>
<b>Quality</b>	Integer	A minimum quality selector ranging from 0 to 10. Default is 3
<b>Length</b>	Integer	A minimum pattern length in bars/candles ranging from 0 to 200. Default is 20.
<b>PatternType</b>	Integer	The code of the type of patterns that can be searched for. Multiple values can be separated by a comma (,). See the section ' <a href="#">Retrieving Pattern Types</a> ' on retrieving a list of pattern types and codes.
<b>Enddate</b>	String	A parameter that indicates patterns to look for whose end-date is after the date specified. Format is YYYY-MM-dd HH:mm:ss
<b>Direction</b>	Integer	The forecasted direction of price movement after pattern completion, Up (1) or Down (-1). Default is to retrieve both.
<b>Initialtrend</b>	Integer	Minimum strength of the trend prior to the pattern formation, ranging from 0 to 10. Default is 0.
<b>Clarity</b>	Integer	The minimum level of "noise" in the price graph, ranging from 0 to 10. Default is 0.
<b>Uniformity</b>	Integer	Minimum even spacing of the turning points that touch support and resistance lines, ranging from 0 to 10. Default is 0.
<b>Breakoutstr</b>	Integer	Minimum momentum with which the price broke through the support or resistance level, ranging from 0 to 10. Default is 0.
<b>Timesymmetry</b>	Integer	Minimum symmetry of the time ratios between each turning point, ranging from 0 to 10. Default is 0.
<b>Pricesymmetry</b>	Integer	Minimum symmetry of the price-level ratios on each turning point, ranging from 0 to 10. Default is 0.
<b>Trend</b>	String	Type of trend, Reversal or Continuation. Multiple values can be separated by a comma (,). Default is to retrieve both.
<b>Resultuid</b>	Long	To search for patterns whose resultuid is larger than the resultuid specified
<b>Symbol</b>	String	The search for a specific symbol(s). Multiple values can be separated by a comma (,)
<b>Interval</b>	Integer	An interval for the symbol. Multiple values can be separated by a comma (,). Options are (where available): 15, 30, 60, 240 (4 hourly), 1440 (daily), 0 (intraday)
<b>Emerging</b>	Integer	Default value is 1. This can be set to 0 to indicate not to retrieve emerging patterns.
<b>Completed</b>	Integer	Default value is 1. This can be set to 0 to indicate not to retrieve completed patterns.
<b>Language</b>	String	Specifies the language that all data needs to be translated to. Options are: japanese, russian,english, french, italian, swiss, german, portuguese, arabic, spanish, chinese, korean.
<b>Timezoneoffset</b>	Integer	Specifies a timezone offset based on GMT to adjust all times with (e.g. a '2' means adjust all times to GMT+2)

<b>Maxhits</b>	Integer	The maximum number of results to be returned.
<b>Option</b>	String	A comma separated value of options which include: 1) <b>ourfavourites</b> – flags a result with extra xml data if it is part of “Our Favourites” collection.

**Request definitions:**

**Error Response**

The following XML will be returned if an error has occurred.

---

```
<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <Error>
    <id>000</id>
    <message>XXX</message>
  </Error>
</AutochartistAPI>
```

**Error Response Definition**

---

<u>Field</u>	<u>Type</u>	<u>Description</u>
<b>id</b>	Integer	A unique error ID.
<b>Message</b>	String	A description of the error

## Chart Pattern Response

The following XML will be returned for Chart Patterns:

---

```
<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <PatternResult>
    <ChartPatternResult>
      <resultuid>000</resultuid>
      <pattern>XXX</pattern>
      <symbol>XXX</symbol>
      <symbolcode>XXX</symbolcode>
      <exchange>XXX</exchange>
      <direction>000</direction>
      <initialtrend>000</initialtrend>
      <quality>000</quality>
      <uniformity>000</uniformity>
      <breakout>000</breakout>
      <clarity>000</clarity>
      <interval>000</interval>
      <completed>000</completed>
      <patternendtime>000</patternendtime>
      <resistancex0>000</resistancex0>
      <resistancex1>000</resistancex1>
      <resistancey0>000</resistancey0>
      <resistancey1>000</resistancey1>
      <supportx0>000</supportx0>
      <supportx1>000</supportx1>
      <supporty0>000</supporty0>
      <supporty1>000</supporty1>
      <volumeincrease>000</volumeincrease>
      <stoploss>000</stoploss>
      <predictionpricefrom>000</predictionpricefrom>
      <predictionpriceto>000</predictionpriceto>
      <predictiontimefrom>000</predictiontimefrom>
      <predictiontimeto>000</predictiontimeto>
      <trend>XXX</trend>
      <length>000</length>
      <relevant>000</relevant>
      <patternimageurl>XXX</patternimageurl>
      <clickthroughurl>XXX</clickthroughurl>
      <timezoneoffset>000</timezoneoffset>
      <sessionid>XXX</sessionid>
      <democandledelay>000</democandledelay>
      <demominutedelay>000</demominutedelay>
      <FavouriteResult>
        <resultuid>000</resultuid>
```

---

---

```
<symbolname>XXX</symbolname>
<groupname>XXX</groupname>
<interval>000</interval>
<direction>000</direction>
<exchange>XXX</exchange>
<patternname>XXX</patternname>
<patternlength>000</patternlength>
<patternage>000</patternage>
<patternendtime>XXX</patternendtime>
<patternquality>000</patternquality>
<hourofday>000</hourofday>
<hourofdaycorrect>000</hourofdaycorrect>
<hourofdaypercent>000</hourofdaypercent>
<hourofdaytotal>000</hourofdaytotal>
<patterncorrect>000</patterncorrect>
<patternpercent>000</patternpercent>
<patterntotal>000</patterntotal>
<percent>000</percent>
<predictionpricefrom>000</predictionpricefrom>
<predictionpriceto>000</predictionpriceto>
<symbolcorrect>000</symbolcorrect>
<symbolpercent>000</symbolpercent>
<symboltotal>000</symboltotal>
<timezoneoffset>000</timezoneoffset>
<imageurl>XXX</imageurl>
</FavouriteResult>
</ChartPatternResult>
</PatternResult>
</AutochartistAPI>
```

---

## Chart Pattern Response Definition

<u>Field</u>	<u>Type</u>	<u>Description</u>
<b>Resultuid</b>	Integer	Unique identifier of the pattern
<b>Pattern</b>	String	The name of the pattern type
<b>Symbol</b>	String	The symbol this result belongs to.
<b>Symbolcode</b>	String	The data-feed code associated with the symbol.
<b>Exchange</b>	String	The exchange the instrument belongs to.
<b>Direction</b>	Integer	The direction of the pattern, 1 is up, -1 is down.
<b>Initialtrend</b>	Integer	The trend of the start of the pattern ranging from 1 to 10.
<b>Interval</b>	Integer	The time granularity (in minutes) of the result.
<b>Uniformity</b>	Integer	Even spacing of the turning points that touch support and resistance lines, ranging from 1 to 10.
<b>Clarity</b>	Integer	The level of "noise" in the price graph - more spiky price movements mean a lower clarity score, ranging from 1 to 10.
<b>Breakout</b>	Integer	Momentum with which the price broke through the support or resistance level, ranging from 1 to 10.
<b>Completed</b>	Integer	Whether the pattern is completed or emerging (0 for emerging, 1 for completed).
<b>Patternendtime</b>	Timestamp	End time of the pattern. Represented as an Epoch timestamp.
<b>Resistancex0</b>	Timestamp	The first time-point of the pattern resistance line. Represented as an Epoch timestamp
<b>Resistancey0</b>	Double	The first price-point of the pattern resistance line.
<b>Resistancex1</b>	Timestamp	The last time-point of the resistance line of the pattern. Represented as an Epoch timestamp
<b>Resistancey1</b>	Double	The first price-point of the pattern resistance line.
<b>Supportx0</b>	Timestamp	The first time-point of the support line of the pattern. Represented as an Epoch timestamp
<b>Supporty0</b>	Double	The first price-point of the pattern resistance line.
<b>Supportx1</b>	Timestamp	The last time-point of the support line of the pattern. Represented as an Epoch timestamp
<b>Supporty1</b>	Double	The first price-point of the pattern resistance line.
<b>VolumeIncrease</b>	Double	The increase of volume traded during the pattern length.
<b>StopLoss</b>	Double	A possible stop loss level, calculated based on statistics.
<b>Predictionpricefrom</b>	Double	The bottom price of the prediction area. This value is only set if the pattern is a completed pattern.
<b>Predictionpriceto</b>	Double	The top price of the prediction area. This value is only set if the pattern is a completed pattern.
<b>Predictiontimefrom</b>	Timestamp	The youngest time (left side) of the prediction area. Represented as an Epoch timestamp. This value is only set if the pattern is a completed pattern.
<b>Predictiontimeto</b>	Timestamp	The oldest time (right side) of the prediction area. Represented as an Epoch timestamp. This value is only set if the pattern is a completed pattern.
<b>Quality</b>	Integer	The quality of the pattern ranging from 1 to 10.

<b>Trend</b>	String	The trend type, Reversal or Continuation.
<b>Length</b>	Integer	The length in bars/candles of the pattern.
<b>Relevant</b>	Integer	Indicates if a pattern is still relevant and can possibly still be executed on.
<b>Patternimageurl</b>	String	A URL to display an Autochartist generated chart of the pattern.
<b>ClickThroughURL</b>	String	A URL to be able to log into the Autochartist Web Application and show the chart detail on the result.
<b>Timezoneoffset</b>	Integer	The initial time-zone offset of the data the pattern was recognized on.
<b>Sessionid</b>	String	This will be the unique session identifier associated with the session and will only be sent if a username and password was sent in the request.
<b>DemoCandleDelay</b>	Integer	Number of candles that this pattern is delayed by, if the user is a demo user.
<b>DemoMinuteDelay</b>	Integer	Number of minutes that this pattern is delayed by, if the user is a demo user.
<b>groupname</b>	String	The group name the pattern belongs to
<b>patterntype</b>	String	The type of the pattern depending on which product the pattern belongs to (e.g. for Key Levels it can be one of "Approaching Key Level" or "Breakout Key Level", for chart patterns it can be one of "Completed Chart Pattern" or "Emerging Chart Pattern")
<b>patternlength</b>	Integer	The length of the pattern.
<b>patternage</b>	Integer	The age of the pattern at the time the request was made.
<b>patternname</b>	String	The name of the pattern.
<b>patternquality</b>	Double	The overall quality of the pattern.
<b>hourofday</b>	Integer	The hour of the day that the pattern was identified at.
<b>hourofdaycorrect</b>	Integer	The total number of correct previous patterns based on the specific hour of the current pattern.
<b>hourofdaypercent</b>	Double	The percentage rate of the current pattern based on the specific hour of the pattern.
<b>hourofdaytotal</b>	Integer	The total number of previous patterns based on the specific hour of the current pattern.
<b>patterncorrect</b>	Integer	The total number of correct previous patterns based on the name of the current pattern.
<b>patternpercent</b>	Double	The percentage rate of the current pattern based on the name of the current pattern.
<b>patterntotal</b>	Integer	The total number of previous patterns based on the name of the current pattern.
<b>percent</b>	Double	The overall percentage rate of the current pattern.
<b>symbolcorrect</b>	Integer	The total number of correct previous patterns based on the symbol of the current pattern.
<b>symbolpercent</b>	Double	The percentage rate of the current pattern based on the symbol of the current pattern.
<b>symboltotal</b>	Integer	The total number of previous patterns based on the s of the current pattern.





## Fibonacci Pattern Response

The following XML will be returned for Fibonacci Patterns:

---

```
<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <PatternResult>
    <FibonacciPatternResult>
      <resultuid>000</resultuid>
      <pattern>XXX</pattern>
      <symbol>XXX</symbol>
      <symbolcode>XXX</symbolcode>
      <exchange>XXX</exchange>
      <direction>000</direction>
      <completed>000</completed>
      <quality>000</quality>
      <initialtrend>000</initialtrend>
      <uniformity>000</uniformity>
      <clarity>000</clarity>
      <interval>000</interval>
      <pricesymmetry>000</pricesymmetry>
      <timesymmetry>000</timesymmetry>
      <patternendtime>000</patternendtime >
      <directionX>XXX</directionX>
      <directionA>XXX</directionA>
      <directionB>XXX</directionB>
      <directionC>XXX</directionC>
      <directionD>XXX</directionD>
      <priceX>XXX</ priceX>
      <priceA>XXX</ priceA>
      <priceB>XXX</ priceB>
      <priceC>XXX</ priceC>
      <directionD>XXX</directionD>
      <timeA>000</timeA>
      <timeB>000</timeB>
      <timeC>000</timeC>
      <timeD>000</timeD>
      <timeX>000</timeX>
      <target3>000</target3>
      <target5>000</target5>
      <target6>000</target6>
      <target7>000</target7>
      <target10>000</target10>
      <target12>000</target12>
      <target16>000</target16>
      <length>000</length>
      <patternimageurl>XXX</patternimageurl>
      <clickthroughurl>XXX</clickthroughurl>
```

---

```

<timezoneoffset>000</timezoneoffset>
<sessionid>XXX</sessionid>
<democandledelay>000</democandledelay>
<demominutedelay>000</demominutedelay>
</FibonacciPatternResult>
</PatternResult>
</AutochartistAPI>

```

#### Fibonacci Pattern Response Definition

Field	Type	Description
<b>Resultuid</b>	Integer	Unique identifier of the pattern
<b>Pattern</b>	String	The name of the pattern type
<b>Symbol</b>	String	The symbol this result belongs to.
<b>Symbolcode</b>	String	The data-feed code associated with the symbol.
<b>Exchange</b>	String	The exchange the instrument belongs to.
<b>Completed</b>	Integer	Whether the pattern is completed or emerging (0 for emerging, 1 for completed).
<b>PriceSymmetry</b>	Double	There is a small margin of difference allowed between actual price ratios and the Fibonacci ratios. Price symmetry illustrates how close the actual price ratios are to the Fibonacci ratios (value between 0 and 10). -1 Indicates that there is no Price Symmetry.
<b>TimeSymmetry</b>	Double	Time symmetry will increase when any Fibonacci ratios found on the time axis are similar to the Fibonacci ratios on the price axis (value between 0 and 10). -1 Indicates that there is no Time Symmetry.
<b>Patternendtime</b>	Timestamp	End time of the pattern. Represented as an Epoch timestamp.
<b>TimeA</b>	Timestamp	Time of the first point on the Fibonacci pattern. Represented as an Epoch timestamp
<b>TimeB</b>	Timestamp	Time of the second point on the Fibonacci pattern. Represented as an Epoch timestamp
<b>TimeC</b>	Timestamp	Time of the third point on the Fibonacci pattern. Represented as an Epoch timestamp
<b>TimeD</b>	Timestamp	Time of the last point on the Fibonacci pattern. Represented as an Epoch timestamp
<b>TimeX</b>	Timestamp	Time of the starting point on Gartley and Butterfly Fibonacci patterns. Represented as an Epoch timestamp
<b>DirectionA</b>	String	Indicates the direction of the line between point A and point B (from the high/low of the A candle to the low/high of the B candle)
<b>DirectionB</b>	String	Indicates the direction of the line between point B and point C (from the high/low of the B candle to the low/high of the C candle)
<b>DirectionC</b>	String	Indicates the direction of the line between point C and

		point D (from the high/low of the C candle to the low/high of the D candle)
<b>DirectionD</b>	String	Not used at his moment.
<b>DirectionX</b>	String	Indicates the direction of the line between point X and point A (from the high/low of the X candle to the low/high of the A candle) on Gartley and Butterfly Fibonacci patterns
<b>PriceA</b>	Double	Price of the first point on the Fibonacci pattern.
<b>PriceB</b>	Double	Price of the second point on the Fibonacci pattern. Represented as an Epoch timestamp
<b>PriceC</b>	Double	Time of the third point on the Fibonacci pattern.
<b>PriceD</b>	Double	Price of the last point on the Fibonacci pattern.
<b>PriceX</b>	Double	Price of the starting point on Gartley and Butterfly Fibonacci patterns.
<b>Target03</b>	Double	The price of the 03 ratio level.
<b>Target05</b>	Double	The price of the 05 ratio level.
<b>Target06</b>	Double	The price of the 06 ratio level.
<b>Target07</b>	Double	The price of the 07 ratio level.
<b>Target10</b>	Double	The price of the 10 ratio level.
<b>Target12</b>	Double	The price of the 12 ratio level.
<b>Target16</b>	Double	The price of the 16 ratio level.
<b>Quality</b>	Integer	The quality of the pattern ranging from 1 to 10.
<b>Direction</b>	Integer	The direction of the pattern, 1 is up, -1 is down.
<b>Interval</b>	Integer	The time granularity (in minutes) of the result.
<b>InitialTrend</b>	Integer	Strength of the trend prior to the pattern formation, ranging from 0 to 10.
<b>Uniformity</b>	Integer	Even spacing of the turning points that touch support and resistance lines, ranging from 0 to 10.
<b>Clarity</b>	Integer	The level of "noise" in the price graph - more spiky price movements mean a lower clarity score, ranging from 0 to 10.
<b>Length</b>	Integer	The length in bars/candles of the pattern.
<b>Patternimageurl</b>	String	A URL to display an Autochartist generated chart of the pattern.
<b>ClickThroughURL</b>	String	A URL to be able to log into the Autochartist Web Application and show the chart detail on the result.
<b>Timezoneoffset</b>	Integer	The initial timezone offset of the data the pattern was recognized on.
<b>Sessionid</b>	String	This will be the unique session identifier associated with the session and will only be sent if a username and password was sent in the request.
<b>DemoCandleDelay</b>	Integer	Number of candles that this pattern is delayed by, if the user is a demo user.
<b>DemoMinuteDelay</b>	Integer	Number of minutes that this pattern is delayed by, if the user is a demo user.



## Horizontal Support/Resistance Response

The following XML will be returned for Key Levels Patterns:

---

```
<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <PatternResult>
    <KeyLevelsPatternResult>
      <resultuid>000</resultuid>
      <pattern>XXX</pattern>
      <symbol>XXX</symbol>
      <symbolcode>XXX</symbolcode>
      <exchange>XXX</exchange>
      <completed>000</completed>
      <quality>000</quality>
      <interval>000</interval>
      <patternendtime>000</patternendtime>
      <price>000</price>
      <point1>000</point1>
      <point2>000</point2>
      <point3>000</point3>
      * <point4>000</point4>
      * <point5>000</point5>
      * <point6>000</point6>
      * <point7>000</point7>
      * <point8>000</point8>
      * <point9>000</point9>
      * <point10>000</point10>
      <length>000</length>
      <stoploss>000</stoploss>
      <relevant>000</relevant>
      <patternimageurl>XXX</patternimageurl>
      <clickthroughurl>XXX</clickthroughurl>
      <timezoneoffset>000</timezoneoffset>
      <sessionid>XXX</sessionid>
      <democandledelay>000</democandledelay>
      <demominutedelay>000</demominutedelay>
    <FavouriteResult>
      <resultuid>000</resultuid>
      <symbolname>XXX</symbolname>
      <groupname>XXX</groupname>
      <interval>000</interval>
      <direction>000</direction>
      <exchange>XXX</exchange>
      <patternype>XXX</patternype>
      <patternlength>000</patternlength>
      <patternage>000</patternage>
      <patternendtime>XXX</patternendtime>
```

---

---

```

<patternname>XXX</patternname>
<patternquality>000</patternquality>
<hourofday>000</hourofday>
<hourofdaycorrect>000</hourofdaycorrect>
<hourofdaypercent>000</hourofdaypercent>
<hourofdaytotal>000</hourofdaytotal>
<patterncorrect>000</patterncorrect>
<patternpercent>000</patternpercent>
<patterntotal>000</patterntotal>
<percent>000</percent>
<predictionpricefrom>000</predictionpricefrom>
<predictionpriceto>000</predictionpriceto>
<symbolcorrect>000</symbolcorrect>
<symbolpercent>000</symbolpercent>
<symboltotal>000</symboltotal>
<timezoneoffset>000</timezoneoffset>
<imageurl>XXX</imageurl>
</FavouriteResult>
</KeyLevelsPatternResult>
</PatternResult>
</AutochartistAPI>

```

---

### Key Levels Response Definitions

Field	Type	Description
Resultuid	Integer	Unique identifier of the pattern
Pattern	String	The name of the pattern type
Symbol	String	The symbol this result belongs to.
Symbolcode	String	The data-feed code associated with the symbol.
Exchange	String	The exchange the instrument belongs to.
Completed	Integer	Whether the pattern is completed or emerging (0 for emerging, 1 for completed).
Patternendtime	Timestamp	End time of the pattern. Represented as an Epoch timestamp.
Price	Double	Price of the resistance or support line.
Point1-10	Timestamp	Time of each point with Point 1 being the youngest point. Note that points 1 to 3 are always given, but 4 – 10 can be empty or absent.
Quality	Integer	The number of turning points of the pattern ranging from 3 to 10.
Interval	Integer	The time granularity (in minutes) of the result.
Length	Integer	The length in bars/candles of the pattern.
StopLoss	Double	A possible stop loss level, calculated based on statistics.
Relevant	Integer	Indicates if a pattern is still relevant and can possibly still be executed on.
Patternimageurl	String	A URL to display an Autochartist generated chart of the

		pattern.
<b>Timezoneoffset</b>	Integer	The initial timezone offset of the data the pattern was recognized on.
<b>Sessionid</b>	String	This will be the unique session identifier associated with the session. The value will only be sent if a username and password was sent in the request.
<b>Direction</b>	Integer	The direction of the pattern, 1 is up, -1 is down.
<b>Predictionpricefrom</b>	Double	The bottom price of the prediction area. This value is only set if the pattern is a completed pattern.
<b>Predictionpriceto</b>	Double	The top price of the prediction area. This value is only set if the pattern is a completed pattern.
<b>Predictiontimefrom</b>	Timestamp	The youngest time (left side) of the prediction area. Represented as an Epoch timestamp. This value is only set if the pattern is a completed pattern.
<b>Predictiontimeto</b>	Timestamp	The oldest time (right side) of the prediction area. Represented as an Epoch timestamp. This value is only set if the pattern is a completed pattern.
<b>PredictionTimeBars</b>	Integer	The number of bars that the prediction area is valid for.
<b>Patternimageurl</b>	String	A URL to display an Autochartist generated chart of the pattern.
<b>DemoCandleDelay</b>	Integer	Number of candles that this pattern is delayed by, if the user is a demo user.
<b>DemoMinuteDelay</b>	Integer	Number of minutes that this pattern is delayed by, if the user is a demo user.
<b>groupname</b>	String	The group name the pattern belongs to
<b>patternype</b>	String	The type of the pattern depending on which product the pattern belongs to (e.g. for Key Levels it can be one of "Approaching Key Level" or "Breakout Key Level", for chart patterns it can be one of "Completed Chart Pattern" or "Emerging Chart Pattern")
<b>patternlength</b>	Integer	The length of the pattern.
<b>patternage</b>	Integer	The age of the pattern at the time the request was made.
<b>patternname</b>	String	The name of the pattern.
<b>patternquality</b>	Double	The overall quality of the pattern.
<b>hourofday</b>	Integer	The hour of the day that the pattern was identified at.
<b>hourofdaycorrect</b>	Integer	The total number of correct previous patterns based on the specific hour of the current pattern.
<b>hourofdaypercent</b>	Double	The percentage rate of the current pattern based on the specific hour of the pattern.
<b>hourofdaytotal</b>	Integer	The total number of previous patterns based on the specific hour of the current pattern.
<b>patterncorrect</b>	Integer	The total number of correct previous patterns based on the name of the current pattern.
<b>patternpercent</b>	Double	The percentage rate of the current pattern based on the name of the current pattern.
<b>patterntotal</b>	Integer	The total number of previous patterns based on the name of the current pattern.



<b>percent</b>	Double	The overall percentage rate of the current pattern.
<b>symbolcorrect</b>	Integer	The total number of correct previous patterns based on the symbol of the current pattern.
<b>symbolpercent</b>	Double	The percentage rate of the current pattern based on the symbol of the current pattern.
<b>symboltotal</b>	Integer	The total number of previous patterns based on the s of the current pattern.

### Powerstats Price Range Forecast Response

The following XML will be returned for Price Range Forecast:

---

```

<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <PowerstatsResult>
    <Pricerangeforecast>
      <symbol>XXX</symbol>
      <symbolcode>XXX</symbolcode>
      <exchange>XXX</exchange>
      <min15>
        <low>000</low>
        <high>000</high>
      </min15>
      <min30>
        <low>000</low>
        <high>000</high>
      </min30>
      <min60>
        <low>000</low>
        <high>000</high>
      </min60>
      <min240>
        <low>000</low>
        <high>000</high>
      </min240>
      <min1440>
        <low>000</low>
        <high>000</high>
      </min1440>
      <PatternImageUrl>XXX</PatternImageUrl>
    </Pricerangeforecast>
  </PowerstatsResult>

```

---

---

</AutochartistAPI>

---

## Powerstats Hourly Movement Response

The following XML will be returned for Hourly Movement:

---

```
<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <PowerstatsResults>
    <Movementperhour>
      <symbol>XXX</symbol>
      <symbolcode>XXX</symbolcode>
      <exchange>XXX</exchange>
      <hour0><low>000</low><high>000</high></hour0>
      <hour1><low>000</low><high>000</high></hour1>
      <hour2><low>000</low><high>000</high></hour2>
      <hour3><low>000</low><high>000</high></hour3>
      <hour4><low>000</low><high>000</high></hour4>
      <hour5><low>000</low><high>000</high></hour5>
      <hour6><low>000</low><high>000</high></hour6>
      <hour7><low>000</low><high>000</high></hour7>
      <hour8><low>000</low><high>000</high></hour8>
      <hour9><low>000</low><high>000</high></hour9>
      <hour10><low>000</low><high>000</high></hour10>
      <hour11><low>000</low><high>000</high></hour11>
      <hour12><low>000</low><high>000</high></hour12>
      <hour13><low>000</low><high>000</high></hour13>
      <hour14><low>000</low><high>000</high></hour14>
      <hour15><low>000</low><high>000</high></hour15>
      <hour16><low>000</low><high>000</high></hour16>
      <hour17><low>000</low><high>000</high></hour17>
      <hour18><low>000</low><high>000</high></hour18>
      <hour19><low>000</low><high>000</high></hour19>
      <hour20><low>000</low><high>000</high></hour20>
      <hour21><low>000</low><high>000</high></hour21>
      <hour22><low>000</low><high>000</high></hour22>
      <hour23><low>000</low><high>000</high></hour23>
      <PatternImageUrl>XXX</PatternImageUrl>
    </Movementperhour>
  </PowerstatsResults>
</AutochartistAPI>
```

---

## Powerstats Daily Movement Response

The following XML will be returned for Daily Movement:

---

```
<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <PowerstatsResults>
    <Movementperday>
      <symbol>XXX</symbol>
      <symbolcode>XXX</symbolcode>
      <exchange>XXX</exchange>
      <sunday>
        <low>000</low><high>000</high>
      </sunday>
      <monday>
        <low>000</low><high>000</high>
      </monday>
      <tuesday>
        <low>000</low><high>000</high>
      </tuesday>
      <wednesday>
        <low>000</low><high>000</high>
      </wednesday>
      <thursday>
        <low>000</low><high>000</high>
      </thursday>
      <friday>
        <low>000</low><high>000</high>
      </friday>
      <saturday>
        <low>000</low><high>000</high>
      </saturday>
      <PatternImageUrl>XXX</PatternImageUrl>
    </Movementperday>
  </PowerstatsResults>
</AutochartistAPI>
```

---

## Response Definitions

Field	Type	Description
Low	Double	The low value of the "bar"
High	Double	The high value of the "bar"

### 3. Retrieving Trade Ideas

#### Functionality

The purpose of the entry point is to allow the user to retrieve trade ideas based on criteria.

#### Request

The following request options are available:

Retrieve trade ideas request if no authentication took place previously:

---

**`http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=tradeideas&symbol=XXX&language=XXX&timezoneoffset=000&maxhits=000`**

---

Retrieve trade ideas request if the user is already authenticated:

---

**`http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=tradeideas&symbol=XXX&language=XXX&timezoneoffset=000&maxhits=000`**

---

## Response

The following XML will be returned:

---

```
<?xml version="1.0" encoding="UTF-8" ?>
<AutochartistAPI>
  <TradeldeasResult>
    <ChartPatternResultDetails>
      <resultuid>000</resultuid>
      <pattern>XXX</pattern>
      <symbol>XXX</symbol>
      <symbolcode>XXX</symbolcode>
      <exchange>XXX</exchange>
      <direction>000</direction>
      <initialtrend>000</initialtrend>
      <quality>000</quality>
      <breakout>000</breakout>
      <interval>000</interval>
      <completed>000</completed>
      <patternendtime>000</patternendtime>
      <resistancex0>000</resistancex0>
      <resistancex1>000</resistancex1>
      <supportx0>000</supportx0>
      <supportx1>000</supportx1>
      <predictionpricefrom>000</predictionpricefrom>
      <predictionpriceto>000</predictionpriceto>
      <predictiontimefrom>000</predictiontimefrom>
      <predictiontimeto>000</predictiontimeto>
      <trend>XXX</trend>
      <length>000</length>
      <patternimageurl>XXX</patternimageurl>
      <timezoneoffset>000</timezoneoffset>
      <sessionid>XXX</sessionid>
    </ChartPatternResultDetails>
    <TradeldeasResultDetails>
      <entrylevel>000</entrylevel>
      <probability>000</probability>
      <takeprofitlevel>000</takeprofitlevel>
      <takeprofitperiod>000</takeprofitperiod>
      <takeprofitpips>000</takeprofitpips>
      <takeprofitinterval>XXX</takeprofitinterval>
      <analysis>XXX</analysis>
      <stoploss>000</stoploss>
    </TradeldeasResultDetails>
  </TradeldeasResult>
</AutochartistAPI>
```

---

## Response Definition

For “ChartPatternResultDetails”, see the result definition section in “Retrieving Patterns”

TradeIdeasResultDetails:

Field	Type	Description
Entrylevel	Double	Entry level for the trade
Probability	Double	A percentage probability of the price moving to the take-profit level
Takeprofitlevel	Double	Level to which we forecast the price to go
Takeprofitperiod	Double	Period in which we think the take-profit level will be met (in minutes)
Takeprofitpips	Integer	The number of pips in this forecast
Takeprofitinterval	String	“Short Term”, “Medium Term” or Long Term”
Analysis	String	String describing the trade opportunity.
Stoploss	Double	Stop loss level for this trade.

## 4. Retrieving Our Favourites

### Functionality

The purpose of the entry point is to allow the user to retrieve Our Favourites patterns based on criteria.

### Request

The following request options are available:

Retrieve Our Favourites request if no authentication took place previously:

---

**http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=ourfavourites&language=XXX&options=XXX**

---

Retrieve trade ideas request if the user is already authenticated:

---

**http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=ourfavourites&language=XXX&options=XXX**

---

Options parameter may consist of one or more of the following values (comma separated):

Field	Description
addpatterndetails	Specifies that Chart Pattern and Key Levels Pattern details should be added to the response.

## Response

The following XML will be returned if the options variable wasn't specified:

---

```
<?xml version="1.0" encoding="UTF-8" ?>
<AutochartistAPI>
  <OurFavourites>
    <FavouriteResult>
      <resultuid>000</resultuid>
      <symbolname>XXX</symbolname>
      <groupname>XXX</groupname>
      <interval>000</interval>
      <direction>000</direction>
      <exchange>XXX</exchange>
      <patterntype>XXX</patterntype>
      <patternlength>000</patternlength>
      <patternage>000</patternage>
      <patternendtime>XXX</patternendtime>
      <patternname>XXX</patternname>
      <patternquality>000</patternquality>
      <hourofday>000</hourofday>
      <hourofdaycorrect>000</hourofdaycorrect>
      <hourofdaypercent>000</hourofdaypercent>
      <hourofdaytotal>000</hourofdaytotal>
      <patterncorrect>000</patterncorrect>
      <patternpercent>000</patternpercent>
      <patterntotal>000</patterntotal>
      <percent>000</percent>
      <predictionpricefrom>000</predictionpricefrom>
      <predictionpriceto>000</predictionpriceto>
      <symbolcorrect>000</symbolcorrect>
      <symbolpercent>000</symbolpercent>
      <symboltotal>000</symboltotal>
      <timezoneoffset>000</timezoneoffset>
      <imageurl>XXX</imageurl>
    </FavouriteResult>
  </OurFavourites>
</AutochartistAPI>
```

---



If addpatterndetails value was specified for options, then the Chart Pattern response will be exactly the same as the chartpattern request response as if our favourites was specified:

See [Chart Pattern Response](#)

The Key Levels Response will be exactly the same as the Key Levels request response as if our favourites was specified:

See [Horizontal Support/Resistance Response](#)

## 5. Retrieving Symbols

### Functionality

The purpose of the entry point is to allow the user to retrieve a list of symbols accessible by the user.

### Request

The following request options are available:

Retrieve symbols request if no authentication took place previously:

---

**`http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=getsymbols&exchange=XXX`**

---

Retrieve symbols request if the user is already authenticated:

---

**`http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=getsymbols&exchange=XXX`**

---

## Response

The following XML will be returned:

---

```
<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <GetSymbols>
    <symbol>
      <instrument>XXX</instrument>
      <symbolcode>XXX</symbolcode>
      <exchange>XXX</exchange>
      <name>XXX</name>
    </symbol>
    <symbol>
      <instrument>XXX</instrument>
      <symbolcode>XXX</symbolcode>
      <exchange>XXX</exchange>
      <name>XXX</name>
    </symbol>
    <symbol>
      <instrument>XXX</instrument>
      <symbolcode>XXX</symbolcode>
      <exchange>XXX</exchange>
      <name>XXX</name>
    </symbol>
    ...
  </GetSymbols>
</AutochartistAPI>
```

---

## Response Definition

<u>Field</u>	<u>Type</u>	<u>Description</u>
<b>Instrument</b>	String	The instrument or 'ticker' of the symbol.
<b>Symbolcode</b>	String	The data-feed code associated with the instrument.
<b>Exchange</b>	String	The exchange the instrument belongs to.
<b>Name</b>	String	The name or description of the symbol.

## 6. Retrieving Time zones

### Functionality

The entry point allows the user to retrieve a list of time zones used by Autochartist.

## **Request**

Each time zone file has a language translation. Requests are http based, and follows the format of:

---

### **English**

[http://\[server\].autochartist.com/aclite/data/tzdb\\_en\\_GB.txt](http://[server].autochartist.com/aclite/data/tzdb_en_GB.txt)

### **Arabic**

[http://\[server\].autochartist.com/aclite/data/tzdb\\_ar\\_AE.txt](http://[server].autochartist.com/aclite/data/tzdb_ar_AE.txt)

### **German**

[http://\[server\].autochartist.com/aclite/data/tzdb\\_de\\_DE.txt](http://[server].autochartist.com/aclite/data/tzdb_de_DE.txt)

### **Spanish**

[http://\[server\].autochartist.com/aclite/data/tzdb\\_es\\_ES.txt](http://[server].autochartist.com/aclite/data/tzdb_es_ES.txt)

### **French**

[http://\[server\].autochartist.com/aclite/data/tzdb\\_fr\\_FR.txt](http://[server].autochartist.com/aclite/data/tzdb_fr_FR.txt)

### **Italian**

[http://\[server\].autochartist.com/aclite/data/tzdb\\_it\\_IT.txt](http://[server].autochartist.com/aclite/data/tzdb_it_IT.txt)

### **Japanese**

[http://\[server\].autochartist.com/aclite/data/tzdb\\_ja\\_JP.txt](http://[server].autochartist.com/aclite/data/tzdb_ja_JP.txt)

### **Portuguese**

[http://\[server\].autochartist.com/aclite/data/tzdb\\_pt\\_PT.txt](http://[server].autochartist.com/aclite/data/tzdb_pt_PT.txt)

### **Russian**

[http://\[server\].autochartist.com/aclite/data/tzdb\\_ru\\_RU.txt](http://[server].autochartist.com/aclite/data/tzdb_ru_RU.txt)

### **Swiss**

[http://\[server\].autochartist.com/aclite/data/tzdb\\_sv\\_SE.txt](http://[server].autochartist.com/aclite/data/tzdb_sv_SE.txt)

### **Chinese**

[http://\[server\].autochartist.com/aclite/data/tzdb\\_zh\\_CN.txt](http://[server].autochartist.com/aclite/data/tzdb_zh_CN.txt)

---

## 7. Retrieving Pattern Types

### Functionality

This entry point allows the user to request a list of pattern types, based on the category of patterns.

### Request

Request for retrieving Chart Pattern types if no authentication took place previously:

---

#### Chart Patterns

[http://\[server\].autochartist.com/aclite/\[broker\]XMLAPI?username=XXX&password=XXX&request=chartpatterntypes&language=XXX](http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=chartpatterntypes&language=XXX)

#### Fibonacci Patterns

[http://\[server\].autochartist.com/aclite/\[broker\]XMLAPI?sessionid=XXX&request=fibonaccipatterntypes&language=XXX](http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=fibonaccipatterntypes&language=XXX)

#### Key Levels Patterns

[http://\[server\].autochartist.com/aclite/\[broker\]XMLAPI?sessionid=XXX&request=keylevelspatterntypes&language=XXX](http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=keylevelspatterntypes&language=XXX)

---

Request for retrieving Chart Pattern types if the user is already authenticated:

---

#### Chart Patterns

[http://\[server\].autochartist.com/aclite/\[broker\]XMLAPI?sessionid=XXX&request=chartpatterntypes](http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=chartpatterntypes)

#### Fibonacci Patterns

[http://\[server\].autochartist.com/aclite/\[broker\]XMLAPI?sessionid=XXX&request=fibonaccipatterntypes](http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=fibonaccipatterntypes)

#### Key Levels Patterns

[http://\[server\].autochartist.com/aclite/\[broker\]XMLAPI?sessionid=XXX&request=keylevelspatterntypes](http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=keylevelspatterntypes)

---

## Response

The following XML will be returned:

---

```
<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <ChartPatternTypes>
    <Type>
      <name>XXX</name>
      <code>000</code>
    </Type>
    <Type>
      <name>XXX</name>
      <code>000</code>
    </Type>
    <Type>
      <name>XXX</name>
      <code>000</code>
    </Type>
    ...
  </ChartPatternTypes>
  <FibonacciPatternTypes>
    <Type>
      <name>XXX</name>
      <code>000</code>
    </Type>
    <Type>
      <name>XXX</name>
      <code>000</code>
    </Type>
    <Type>
      <name>XXX</name>
      <code>000</code>
    </Type>
    ...
  </FibonacciPatternTypes>
  <KeyLevelsPatternTypes>
    <Type>
      <name>XXX</name>
      <code>000</code>
    </Type>
    <Type>
      <name>XXX</name>
      <code>000</code>
    </Type>
  </KeyLevelsPatternTypes>
</AutochartistAPI>
```

---

---

```
<name>XXX</name>
<code>000</code>
</Type>
...
</KeyLevelsPatternTypes>
</AutochartistAPI>
```

---

### Pattern Type Definitions

<u>Field</u>	<u>Type</u>	<u>Description</u>
<b>Name</b>	String	The name of the pattern type
<b>Code</b>	String	A unique code to identify the type. This is also used when requesting patterns of a specific type (See the section "Retrieving Patterns")

## 8. Retrieving Exchanges (where applicable)

### Functionality

This entry point allows the user to retrieve a list of exchanges the user has access to. This is generally only applicable where symbols with the same name (or ticker) exist in multiple exchanges.

### Request

Request for retrieving Chart Pattern types if no authentication took place previously:

---

```
http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=getexchanges&language=XXX
```

---

Request for retrieving Chart Pattern types if the user is already authenticated:

---

```
http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=getexchanges
```

---

## Response

The following XML will be returned:

---

```
<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <Exchanges>
    <name>XXX</name>
    <name>XXX</name>
    <name>XXX</name>
    ...
  </Exchanges>
</AutochartistAPI>
```

---

## 9. Creating Users

### Functionality

This entry point allows for the creation of a user on the Autochartist platform.

### Request

Request to create a user if no authentication took place previously:

---

```
http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&
request=createuser&r_username=XXX&r_password=XXX&firstname=XXX&lastname=XXX
&country=XXX&phone=XXX&email=XXX&demo=XXX
```

---

Request to create a user if the authorized user is already authenticated:

---

```
http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&
request=createuser&r_username=XXX&r_password=XXX&firstname=XXX&lastname=XXX
&country=XXX&phone=XXX&email=XXX&demo=XXX
```

---

## Create User Definitions

Field	Type	Description
username	String	The username used to log into the API
password	String	The password used to log into the API
sessionid	String	A session ID supplied upon login, that can be used in subsequent requests.
r_username	String	The username of the new user
r_password	String	The password of the new user
firstname	String	The name of the new user
lastname	String	The last or family name of the user
country	String	The country the user resides in.
phone	String	The phone number of the new user
email	String	The email address of the new user.
demo	Integer	This set the user account to live or demo (1 being demo, 0 being live)

## Response

The following XML will be returned:

---

```
<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <Error>
    <id>XXX</id>
    <message>000</message>
  </Error>
</AutochartistAPI>
```

---

## Error Response Codes

Field	Message	Description
0		The request was successful and message tag will be empty.
2	error authenticating user on 'createuser' request	There was an error authenticating the logged in user during the request to create a user.
3	An unknown error has occurred during request 'createuser'.	A fatal error occurred while trying to create the user
4	A platform error has occurred during request 'createuser'.	An infrastructure error has occurred while trying to create a user. Autochartist support should be contacted regarding this error.
11		A data retrieval error occurred. Most probable cause is that the username and password were not specified.



## 10. Update User

### Functionality

This entry point allows for the update of an existing user on the Autochartist platform.

### Request

Request to update a user if no authentication took place previously:

---

**http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=updateuser&r\_username=XXX&r\_password=XXX&firstname=XXX&lastname=XXX&country=XXX&phone=XXX&email=XXX&userperiod=XXX&demo=XXX**

---

Request to update a user if the user is already authenticated:

---

**http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=updateuser&r\_username=XXX&r\_password=XXX&firstname=XXX&lastname=XXX&country=XXX&phone=XXX&email=XXX&userperiod=XXX&demo=XXX**

---

### Update User Definitions

Field	Type	Description
username	String	The username used to log into the API
password	String	The password used to log into the API
sessionid	String	A session ID supplied upon login, that can be used in subsequent requests.
r_username	String	The username of the existing user
r_password	String	The new password of the existing user
firstname	String	The new name of the existing user
lastname	String	The new last or family name of the existing user
country	String	The new country the existing user resides in.
phone	String	The new phone number of the existing user
email	String	The new email address of the existing user.
userperiod	Integer	0, 14 or 30 days that the demo period should be increased with as of the date of this command.
demo	Integer	Sets the account type for the user. Demo is 1, Live is 0. Live users can't be set to Demo type, but Demo users can be set to Live.

## Response

The following XML will be returned:

```
<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <Error>
    <id>XXX</id>
    <message>000</message>
  </Error>
</AutochartistAPI>
```

## Error Response Codes

Field	Message	Description
0		The request was successful and message tag will be empty.
2	error authenticating user on 'createuser' request	There was an error authenticating the logged in user during the request to update a user.
3	An unknown error has occurred during request 'createuser'.	A fatal error occurred while trying to create the user
4	A platform error has occurred during request 'createuser'.	An infrastructure error has occurred while trying to update a user. Autochartist support should be contacted regarding this error.
10	User [XXX] doesn't exist. Please use the 'createuser' request first.	The user the request was for, does not exist on the platform.
11		A data retrieval error occurred. Most probable cause is that the was not specified.

## 11. Retrieve User

### Functionality

This entry point allows for the retrieval of an existing user on the Autochartist platform.

### Request

Request to get a user if no authentication took place previously:

---

**`http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=getuser&r_username=XXX`**

---

Request to get a user if the user is already authenticated:

---

**`http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=getuser&r_username=XXX`**

---

### Get User Definitions

<u>Field</u>	<u>Type</u>	<u>Description</u>
<b>username</b>	String	The username used to log into the API
<b>password</b>	String	The password used to log into the API
<b>sessionid</b>	String	A session ID supplied upon login, that can be used in subsequent requests.
<b>r_username</b>	String	The username of the existing user

## Response

The following XML will be returned:

---

```
<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <User>
    <username>XXX</username>
    <password>XXX</password>
    <firstname>XXX</firstname>
    <lastname>XXX</lastname>
    <firstloggedin>XXX-XX-XX XX:XX:XX</firstloggedin>
    <expirydate>XXX-XX-XX XX:XX:XX</expirydate>
    <demo>000</demo>
    <country>XXX</country>
    <phone>XXX</phone>
    <email>XXX</email>
  </User>
</AutochartistAPI>
```

---

## Response Definitions

Field	Type	Description
username	String	The username of the user
password	String	The password of the user
firstname	String	The first name of the user
lastname	String	The last or family name of the user
firstloggedin	String	A date when the user first logged in. This is in the format YYYY-mm-dd HH:MM:ss (e.g. 2011-08-11 10:41:21)
expirydate	String	The date the demo account expires on. This is in the format YYYY-mm-dd HH:MM:ss (e.g. 2011-08-11 10:41:21)
demo	Integer	The demo status of the account
country	String	The country of the user
phone	String	The phone number of the user
email	String	The email address of the user.

## 12. Logging server-based request hits

### Functionality

This entry point allows for the registration of hit from a user-request on the Autochartist platform.

### Chart Pattern Request

To register a chart pattern request hit, if no authentication took place previously:

---

**[http://\[server\].autochartist.com/aclite/\[broker\]XMLAPI?username=XXX&password=XXX&request=chartpatterns\\_hit&h\\_username=XXX](http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=chartpatterns_hit&h_username=XXX)**

---

To register a chart pattern request hit, if the user is already authenticated:

---

**[http://\[server\].autochartist.com/aclite/\[broker\]XMLAPI?sessionid=XXX&request=chartpatterns\\_hit&h\\_username=XXX](http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=chartpatterns_hit&h_username=XXX)**

---

### Fibonacci Pattern Request

To register a fibonacci pattern request hit, if no authentication took place previously:

---

**[http://\[server\].autochartist.com/aclite/\[broker\]XMLAPI?username=XXX&password=XXX&request=fibonaccipatterns\\_hit&h\\_username=XXX](http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=fibonaccipatterns_hit&h_username=XXX)**

---

To register a fibonacci pattern request hit, if the user is already authenticated:

---

**[http://\[server\].autochartist.com/aclite/\[broker\]XMLAPI?sessionid=XXX&request=fibonaccipatterns\\_hit&h\\_username=XXX](http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=fibonaccipatterns_hit&h_username=XXX)**

---

### Key Levels Pattern Request

To register a key levels pattern request hit, if no authentication took place previously:

---

[http://\[server\].autochartist.com/aclite/\[broker\]XMLAPI?username=XXX&password=XXX&request=keylevelspatterns\\_hit&h\\_username=XXX](http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=keylevelspatterns_hit&h_username=XXX)

---

To register a key levels pattern request hit, if the user is already authenticated:

---

[http://\[server\].autochartist.com/aclite/\[broker\]XMLAPI?sessionid=XXX&request=keylevelspatterns\\_hit&h\\_username=XXX](http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=keylevelspatterns_hit&h_username=XXX)

---

### Powerstats Request

To register a power stats request hit, if no authentication took place previously:

---

[http://\[server\].autochartist.com/aclite/\[broker\]XMLAPI?username=XXX&password=XXX&request=powerstats\\_hit&h\\_username=XXX](http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=powerstats_hit&h_username=XXX)

---

To register a power stats request hit, if the user is already authenticated:

---

[http://\[server\].autochartist.com/aclite/\[broker\]XMLAPI?sessionid=XXX&request=powerstats\\_hit&h\\_username=XXX](http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=powerstats_hit&h_username=XXX)

---

### Trade Ideas Request

To register a trade ideas request hit, if no authentication took place previously:

---

[http://\[server\].autochartist.com/aclite/\[broker\]XMLAPI?username=XXX&password=XXX&request=tradeideas\\_hit&h\\_username=XXX](http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=tradeideas_hit&h_username=XXX)

---

To register a trade ideas request hit, if the user is already authenticated:

---

[http://\[server\].autochartist.com/aclite/\[broker\]XMLAPI?sessionid=XXX&request=tradeideas\\_hit&h\\_username=XXX](http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=tradeideas_hit&h_username=XXX)

---

## Hit Request Definitions

<u>Field</u>	<u>Type</u>	<u>Description</u>
username	String	The username used to log into the API
password	String	The password used to log into the API
sessionid	String	A session ID supplied upon login, that can be used in subsequent requests.
h_username	String	The username of the user for which the hit is logged.

## Response

The following XML will be returned:

---

```
<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <Error>
    <Id>000</Id>
    <Message>XXX</ Message >
  </Error>
</AutochartistAPI>
```

---

## Response Definitions

<u>Field</u>	<u>Type</u>	<u>Description</u>
Id	Integer	An error code (0 means no error occurred)
Message	String	An error message to indicate the error that occurred.

### 13. Market Reports Registration

#### Functionality

This entry point allows for the registration of a user to receive Market Reports.

#### Request

To register a user, if no authentication took place previously:

---

**http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=registermr&email=XXX&reportid=000&language=XXX&regionsess=000&accounttype=000**

---

To register a user, if the user is already authenticated:

---

**http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=registermr&email=XXX&reportid=000&language=XXX&regionsess=000&accounttype=000**

---

#### Hit Request Definitions

Field	Type	Description
username	String	The username used to log into the API
password	String	The password used to log into the API
sessionid	String	A session ID supplied upon login, that can be used in subsequent requests.
email	String	The username of the user for which the hit is logged.
reportid	Integer	The ID of the specific report to subscribe to.
language	String	A comma separated list of languages based on the Java language code (e.g. for English-British it will be en_GB)
regionsess	Integer	A comma separated list of regions to subscribe to. Each region occupies a specific position in the list, e.g. Asia region is in the first position, Europe in the second and USA in the third. To subscribe to USA only the value for regionsess would read '0,0,1'
accounttype	Integer	The account Type (0 or 1)



## Response

The following XML will be returned:

---

```
<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <Error>
    <id>000</id>
    <message>XXX</message>
  </Error>
</AutochartistAPI>
```

---

## Response Definitions

Field	Type	Description
id	Integer	An error code (0 means no error occurred)
Message	String	An error message to indicate the error that occurred.

## 14. Our Favourites

### Functionality

This entry point retrieves a list of patterns based on a minimum success-rate of past patterns (called "Our Favourites" patterns).

### Pattern Request

To request Our Favourites patterns, if no authentication took place previously :

---

[http://\[server\].autochartist.com/aclite/\[broker\]XMLAPI?username=XXX&password=XXX&request=ourfavourites&groupname=XXX&limit=000&minprobability=000](http://[server].autochartist.com/aclite/[broker]XMLAPI?username=XXX&password=XXX&request=ourfavourites&groupname=XXX&limit=000&minprobability=000)

---

To register a user, if the user is already authenticated:

---

[http://\[server\].autochartist.com/aclite/\[broker\]XMLAPI?sessionid=XXX&request=ourfavourites&groupname=XXX&limit=000&minprobability=000](http://[server].autochartist.com/aclite/[broker]XMLAPI?sessionid=XXX&request=ourfavourites&groupname=XXX&limit=000&minprobability=000)

---

### Our Favourites Request Definitions

<u>Field</u>	<u>Type</u>	<u>Description</u>
<b>username</b>	String	The username used to log into the API
<b>password</b>	String	The password used to log into the API
<b>sessionid</b>	String	A session ID supplied upon login, that can be used in subsequent requests.
<b>groupname</b>	String	A group name to filter by as listed in the "Our Favourites" tab on the Autochartist web application. This field is optional.
<b>limit</b>	Integer	The maximum number of patterns to be displayed, per group.
<b>minprobability</b>	Integer	The minimum probability for patterns to be searched for.

## Response

The following XML will be returned:

---

```
<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <FavouriteResult>
    <resultuid>000</resultuid>
    <symbolname>XXX</symbolname>
    <groupname>XXX</groupname>
    <interval>000</interval>
    <direction>000</direction>
    <exchange>XXX</exchange>
    <patterntype>XXX</patterntype>
    <patternlength>000</patternlength>
    <patternage>000</patternage>
    <patternendtime>XXX</patternendtime>
    <patternname>XXX</patternname>
    <patternquality>000</patternquality>
    <hourofday>000</hourofday>
    <hourofdaycorrect>000</hourofdaycorrect>
    <hourofdaypercent>000</hourofdaypercent>
    <hourofdaytotal>000</hourofdaytotal>
    <patterncorrect>000</patterncorrect>
    <patternpercent>000</patternpercent>
    <patterntotal>000</patterntotal>
    <percent>000</percent>
    <predictionpricefrom>000</predictionpricefrom>
    <predictionpriceto>000</predictionpriceto>
    <symbolcorrect>000</symbolcorrect>
    <symbolpercent>000</symbolpercent>
    <symboltotal>000</symboltotal>
    <timezoneoffset>000</timezoneoffset>
    <imageurl>XXX</imageurl>
  </FavouriteResult>
</AutochartistAPI>
```

---

## Response Definitions

Field	Type	Description
resultuid	Integer	An error code (0 means no error occurred)
symbolname	String	An error message to indicate the error that occurred.
groupname	String	The group name the pattern belongs to
interval	Integer	An interval for the pattern - 15, 30, 60, 240 (4 hourly), 1440 (daily)
direction	Integer	The direction of the pattern
exchange	String	The exchange of the symbol for this pattern.
patterntype	String	The type of the pattern depending on which product the pattern belongs to (e.g. for Key Levels it can be one of "Approaching Key Level" or "Breakout Key Level", for chart patterns it can be one of "Completed Chart Pattern" or "Emerging Chart Pattern")
patternlength	Integer	The length of the pattern.
patternage	Integer	The age of the pattern at the time the request was made.
patternendtime	Integer	The time the pattern was identified at.
patternname	String	The name of the pattern.
patternquality	Double	The overall quality of the pattern.
hourofday	Integer	The hour of the day that the pattern was identified at.
hourofdaycorrect	Integer	The total number of correct previous patterns based on the specific hour of the current pattern.
hourofdaypercent	Double	The percentage rate of the current pattern based on the specific hour of the pattern.
hourofdaytotal	Integer	The total number of previous patterns based on the specific hour of the current pattern.
patterncorrect	Integer	The total number of correct previous patterns based on the name of the current pattern.
patternpercent	Double	The percentage rate of the current pattern based on the name of the current pattern.
patterntotal	Integer	The total number of previous patterns based on the name of the current pattern.
percent	Double	The overall percentage rate of the current pattern.
predictionpricefrom	Double	Only applicable if the type of the pattern is either "Breakout Key Level" or "Completed Chart Pattern". This represents the bottom price level of the prediction area for the current pattern
predictionpriceto	Double	Only applicable if the type of the pattern is either "Breakout Key Level" or "Completed Chart Pattern". This represents the top price level of the prediction area for the current pattern
symbolcorrect	Integer	The total number of correct previous patterns based on the symbol of the current pattern.
symbolpercent	Double	The percentage rate of the current pattern based on the symbol of the current pattern.
symboltotal	Integer	The total number of previous patterns based on the s of the current pattern.
timezoneoffset	Integer	The initial timezone offset of the data the pattern was

		recognized on.
<b>imageurl</b>	String	An encoded URL that can be pasted in any browser that will display a chart of the current pattern.

## 15. API examples

### Authenticating

An example of authenticating:

---

**`http://demo.autochartist.com/DemoXMLAPI?request=authenticate&username=test&password=test&language=english`**

---

An example XML response of a successful authentication

---

```
<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <Authentication>
    <sessionid>eq77ufhgyt8</sessionid>
    <errormessage></errormessage>
  </Authentication>
</AutochartistAPI>
```

---

An example XML response of a failed authentication attempt

---

```
<?xml version="1.0" encoding="UTF-8"?>
<AutochartistAPI>
  <Authentication>
    <sessionid>0</sessionid>
    <errormessage>Unable to authenticate the user: username and/or password not
specified</errormessage>
  </Authentication>
</AutochartistAPI>
```

---

## Drawing a Chart Pattern

The following diagram illustrates how to use the values in the results to draw the necessary lines and areas.



### Definition:

- A: Point A corresponds to the time/price coordinates of values **supportx0** and **the lowest price value** as found in the xml.
- B: Point B corresponds to the time/price coordinates of values **supportx1** and **the lowest price value** as found in the xml.
- C: Point C corresponds to the time/price coordinates of values **resistancex0** and **the highest price value** as found in the xml.
- D: Point D corresponds to the time/price coordinates of values **resistancex1** and **the highest price value** as found in the xml.
- E: Points E are extensions of the lines drawn between points 'A' and 'B', and points 'C' and 'D' ending at the time-based value of **patternendtime** as found in the xml.
- F: Point F corresponds to the value of **predictiontimeto** as found in the xml (only applicable to completed patterns).
- G: Point G corresponds to the value of **predictiontimefrom** as found in the xml (only applicable to completed patterns).

## Requesting Chart Patterns:

An example of requesting all chart patterns on all symbols for both completed and emerging:

---

**<http://demo.autochartist.com/DemoXMLAPI?sessionid=eq77ufhgyt8&request=chartpatterns>**

---

An example of requesting all chart patterns for EURUSD for both completed and emerging:

---

**<http://demo.autochartist.com/DemoXMLAPI?sessionid=eq77ufhgyt8&request=chartpatterns&symbol=EURUSD&completed=1&emerging=1>**

---

An example of requesting all chart patterns for EURUSD but only for emerging patterns:

---

**<http://demo.autochartist.com/DemoXMLAPI?sessionid=eq77ufhgyt8&request=chartpatterns&symbol=EURUSD&completed=0&emerging=1>**

---



## Drawing Fibonacci Patterns

The following diagram illustrates how to use the values in the result to draw the necessary lines and indicators. With regards to drawing points (X) A to D, either the price can be used, or the price of the platform can be used in conjunction with the direction values (e.g down,up,down,up as per the image).



### Definition:

- 1: Point 1 corresponds to the value of **target3** as found in the xml.
- 2: Point 2 corresponds to the value of **target5** as found in the xml.
- 3: Point 3 corresponds to the value of **target6** as found in the xml.
- 4: Point 4 corresponds to the value of **target7** as found in the xml.
- 5: Point 5 corresponds to the value of **target10** as found in the xml.
- 6: Point 6 corresponds to the value of **target12** as found in the xml.
- 7: Point 7 corresponds to the value of **target16** as found in the xml.

### Requesting Fibonacci Patterns:

An example of requesting all Fibonacci patterns on all symbols for both completed and emerging:

---

<http://demo.autochartist.com/DemoXMLAPI?sessionid=eq77ufhgyt8&request=fibonaccipatterns>

---

An example of requesting all Fibonacci patterns for EURUSD for both completed and emerging:

---

<http://demo.autochartist.com/DemoXMLAPI?sessionid=eq77ufhgyt8&request=fibonaccip>

---

---

atterns&symbol=EURUSD&completed=1&emerging=1

---

An example of requesting all Fibonacci patterns for EURUSD but only for emerging patterns:

---

<http://demo.autochartist.com/DemoXMLAPI?sessionid=eq77ufhgyt8&request=fibonaccipatterns&symbol=EURUSD&completed=0&emerging=1>

---

### Drawing Horizontal Support/Resistance Charts

The following diagram illustrates how to use the values in the result to draw the necessary lines and indicators.



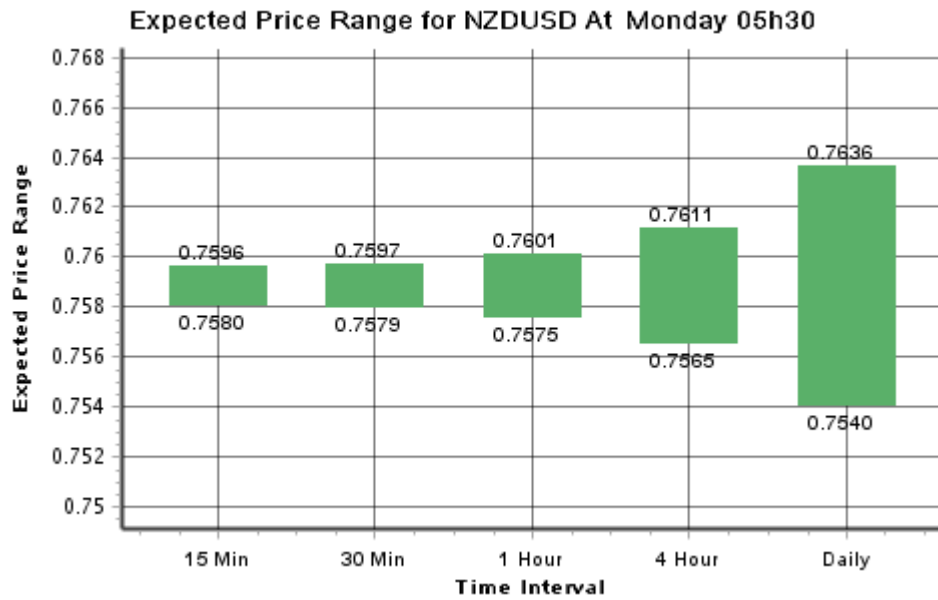
#### Definition:

- 1: Point 1 corresponds to the value of **point1 – point9** as found in the xml.
- 2: Point 2 corresponds to **patternendtime** as found in the xml.
- 3: Point 3 is a horizontal line drawn between **point1** and **patternendtime**
- 4: Point 4 is a future-continuation of the line drawn between **point1** and **patternendtime**.

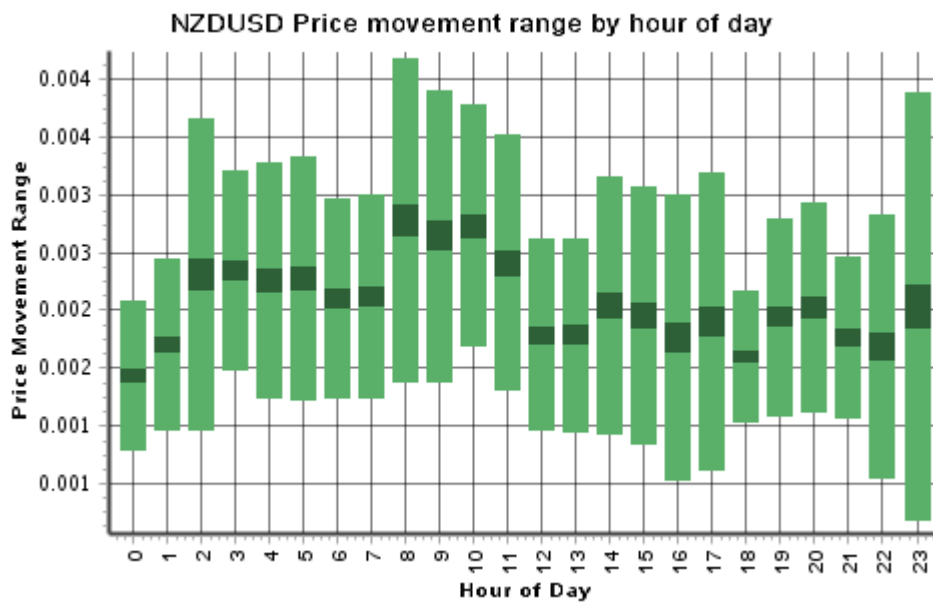
## Drawing Powerstats Charts

The following diagrams illustrate how to use the values in the result to draw the necessary candles/bars.

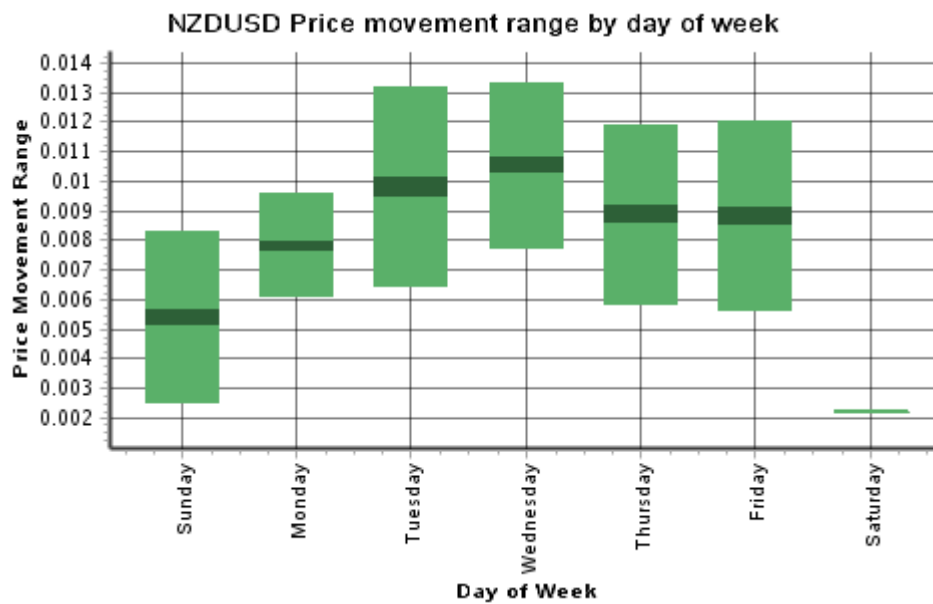
### Pricerange Forecast



### Hourly Movement



## Daily Movement



## Requesting Powerstats

An example of requesting Powerstats patterns for EURUSD on all exchanges:

---

<http://demo.autochartist.com/DemoXMLAPI?sessionid=eq77ufhgyt8&request=powerstats&symbol=EURUSD>

---

An example of requesting Powerstats patterns for EURUSD on the FOREX exchange:

---

<http://demo.autochartist.com/DemoXMLAPI?sessionid=eq77ufhgyt8&request=powerstats&symbol=EURUSD&exchange=FOREX>

---

## 16. Appendix A

- Multiple pattern-categories can be requested by separating each category with a comma (,) in the 'type' parameter.
- When retrieving patterns for a previously saved search, all powerstats data will be returned along with the pattern results (where available).

## 17. Appendix B

- a. Listed below are the error codes along with their descriptions.

<u>Code</u>	<u>Description</u>
0	One or more specified parameters are not supported in the API.
1	Reserved.
2	A session validation/authentication step has failed during the request.
3	A Fatal or unknown error has occurred.
4	An infrastructure error has occurred (database or network related). The request can be re-issued at a later stage.
5	A data-conversion error has occurred. Check the data for validity.
6	Reserved.
7	Reserved.
8	The broker/user does not have access to PowerStats.
9	PowerStats is not available for this symbol.

- b. Authentication errors will result only in the sessionID being zero, along with an error message.