

Price2Spy API Reference Guide - SOAP (AutoMatch features)



Authors:

Miša Krunić, misha@price2spy.com,

Nemanja Đokić n.djokic@price2spy.com

Version: 2.11

Table of contents

Before proceeding.....	2
List of operations.....	2
Operations definition	2

Before proceeding

Price2Spy Automatch API SOAP document describes details of Price2Spy API operations – implemented in SOAP.

Before you read this document, please make sure you have read and understood

- **Price2Spy API Reference Guide** document
- **Price2Spy Automatch API Reference Guide** document

List of operations

- Retrieving Price2Spy AutoMatch data ('get' operations)
 - i. **getAutomatchUrls** – get AutoMatched URLs for specified productID
 - ii. **getMultipleAutomatchUrls** – get AutoMatched URLs for a range of products (based on category, brand etc.)
 - iii. **getUrls** – this operation is not new, but is extended with **automatchUrl** element
- Managing Price2Spy AutoMatch data
 - i. **promoteAutomatchUrl**
 - ii. **rejectAutomatchUrl**
 - iii. **demoteAutomatchUrl**

Operations definition

- **getAutomatchUrls**

	Attributes	Type	Req	Default	Notes
Request	getAutomatchUrlsRequest	complex	Y		See below for search parameters
Response	AutomatchUrls	complex			List of automatchUrlType elements returned by search
Possible Faults	generalError				General error detected. Refer to error details

Search contains the following elements

- id - int
- idMode – string (ID | SKU | INTERNAL_ID – specifies which product field will be used for search)

AutomatchUrlType complex element contains the following elements

- automatchUrlId - long (AutomatchURL's ID in Price2Spy)
- url – string (the URL of the Automatched product on competitor site)
- matchAccuracy – int (the accuracy of the matched URL, as determined by Price2Spy's algorithms)

- dateChecked – dateTime (timestamp of the moment Automatched URL was detected)
- approved – Boolean – possible values are
 - TRUE - Automatched URL has been approved as correct match (either automatically, or manually)
 - FALSE - Automatched URL has been disapproved (identified as wrong match)
 - The absence of this element means that Automatched URL has not been approved / disapproved yet
- dateApproved – dateTime (timestamp of the moment Automatched URL was approved / disapproved. Absence of this element means that Automatched URL has not been approved / disapproved yet)
- automatchUrlFields – optional list of **automatchUrlField** elements (see below)

AutomatchUrlFieldType complex element contains the following elements

- name - string (name of the property of the Automatched URL (for example: price))
- value - string (value of the property of the Automatched URL (for example: 137.00))

1. Example SOAP request / response (search for all Automatched URLs for given product)

Request	<pre><soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sear="http://www.price2spy.com/api/search"> <soapenv:Header/> <soapenv:Body> <sear:getAutomatchUrlsRequest> <sear:search id="16678" idMode="ID"/> <sear:apiKey>f20e1f786c8b96ab54e089f</sear:apiKey> </sear: getAutomatchUrlsRequest > </soapenv:Body> </soapenv:Envelope></pre>
Response	<pre><soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"> <soap:Body> <ns3:getAutomatchUrlsResponse xmlns="http://www.price2spy.com/api/modify" xmlns:ns2="http://www.price2spy.com/api/fault" xmlns:ns3="http://www.price2spy.com/api/search"> <ns3:automatchUrl> <ns3:automatchUrlId>6245836</ns3:urlId> <ns3:url>http://www.amazon.com/HP-Envy-E-all---one- Printer/dp/B005PYCLXA/ref=sr_1_1?ie=UTF8&amp;qid=1336458175&amp;sr=8-1</ns3:url> <ns3:matchAccuracy >99</ns3:matchAccuracy > <ns3:dateChecked>2014-01-20T08:21:08.993+02:00</ns3:dateChecked> <ns3:approved>FALSE</ns3:approved> <ns3:dateApproved>2014-01-23T09:11:08.993+02:00</ns3: dateApproved > <ns3:automatchUrlFields> <ns3:automatchUrlField> <ns3:name>name</ ns3:name> <ns3:value>Olympus DX430 5.3 Megapixel</ ns3:value> </ns3:automatchUrlField> <ns3:automatchUrlField> <ns3:name>price</ ns3:name> <ns3:value>63</ ns3:value> </ns3:automatchUrlField> </ns3:automatchUrlFields> </ns3:automatchUrl> <ns3:automatchUrl> <ns3:automatchUrlId>6245837</ns3:urlId></pre>

```

<ns3:url>http://www.amazon.com/HP-Envy-E-all---one-
Printer/dp/B005PYCLbb/ref=sr_1_1?ie=UTF8&qid=1336458175&sr=8-1</ns3:url>
<ns3:matchAccuracy>100</ns3:matchAccuracy >
<ns3:dateChecked>2014-01-20T08:21:09.993+02:00</ns3:dateChecked>
<ns3:approved>TRUE</ns3:approved>
<ns3:dateApproved>2014-01-23T09:15:08.993+02:00</ns3: dateApproved >
<ns3:automatchUrlFields>
  <ns3:automatchUrlField>
    <ns3:name>name</ ns3:name >
    <ns3:value>Olympus DX434 5.3 Megapixel</ ns3:value>
  </ns3:automatchUrlField>
  <ns3:automatchUrlField>
    <ns3:name>price</ ns3:name >
    <ns3:value>59.50</ ns3:value>
  </ns3:automatchUrlField>
</ns3:automatchUrlFields>
</ns3:automatchUrl>
</ns3:getAutomatchUrlsResponse>
</soap:Body>
</soap:Envelope>

```

- **getMultipleAutomatchUrls**

	Attributes	Type	Req	Default	Notes
Request search element	getMultipleAutomatchUrlsRequest	complex	Y		See below for searchProductType parameters
Response	AutomatchUrls	complex			List of automatchUrlType elements returned by search
Possible Faults	generalError				General error detected. Refer to error details

Search contains the following elements

- searchMode – LIKE | EQUAL (if omitted, the default is LIKE)
 - LIKE will return all products which contain searched value as a substring (in SQL terminology, this would be represented by operator LIKE)
 - EQUAL will return only products with exact attribute value that has been searched (in SQL terminology, this would be represented by operator =)
- productId - long
- productName – string
- url – string
- sku – string
- internalId – string
- categoryName – string
- categoryId – int
- brandName – string
- brandId – int
- supplierName – string
- supplierId – int
- Metadata1Id – int
- Metadata1Name – string
- Metadata2Id – int
- Metadata2Name – string

- Metadata3Id – int
- Metadata3Name – string
- dateChangeFrom – datetime (refers to timestamp of the last price / availability change detected for this product)
- dateChangeTo – datetime (refers to timestamp of the last price / availability change detected for this product)

2. Example SOAP request / response (search for all Automatched URLs for given product)

Request	<pre><soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sear="http://www.price2spy.com/api/search"> <soapenv:Header/> <soapenv:Body> <sear:getMultipleAutomatchUrlsRequest> <sear:search_searchMode="ID" productId="123456"/> <sear:apiKey>f20e1f786c8b96ab54e089f </sear:apiKey> </sear:getMultipleAutomatchUrlsRequest> </soapenv:Body> </soapenv:Envelope></pre>
Response	<pre><ns3:soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"> <ns3:soap:Body> <ns3:getMultipleAutomatchUrlsResponse xmlns="http://www.price2spy.com/api/search" xmlns:ns2="http://www.price2spy.com/api/fault" xmlns:ns3="http://www.price2spy.com/api/modify"> <ns3:automatchUrl> <ns3:automatchUrlId>157512625</ns3:automatchUrlId> <ns3:url>https://www.bitiba.de/shop/hunde/kausnacks/8in1/dental/467098</ns3:url> <ns3:matchAccuracy>100</ns3:matchAccuracy> <ns3:dateChecked>2019-06-10T13:21:44+02:00</ns3:dateChecked> <ns3:approved>true</ns3:approved> <ns3:dateApproved>2019-06-11T13:21:44+02:00</ns3:dateApproved> <ns3:dateAdded>2019-06-10T13:21:44+02:00</ns3:dateAdded> <ns3:dateModified>2019-06-10T13:21:44+02:00</ns3:dateModified> <ns3:addedById>5532</ns3:addedById> <ns3:modifiedById>5523</ns3:modifiedById> </ns3:automatchUrl> <ns3:automatchUrl> <ns3:automatchUrlId>178490235</ns3:automatchUrlId> <ns3:url>https://www.bitiba.de/shop/hunde/hundefutter_trocken/happy_dog_supreme/sensible/48533</ ns3:url> <ns3:matchAccuracy>100</ns3:matchAccuracy> <ns3:dateChecked>2019-06-06T17:00:57+02:00</ns3:dateChecked> <ns3:approved>true</ns3:approved> <ns3:dateApproved>2019-06-07T17:00:57+02:00</ns3:dateApproved> <ns3:dateAdded>2019-06-06T17:00:57+02:00</ns3:dateAdded> <ns3:dateModified>2019-06-06T17:00:57+02:00</ns3:dateModified> <ns3:addedById>5532</ns3:addedById> <ns3:modifiedById>5523</ns3:modifiedById> </ns3:automatchUrl> <ns3:automatchUrl> <ns3:automatchUrlId>18174386</ns3:automatchUrlId> <ns3:url>https://www.bitiba.de/shop/hunde/hundefutter_trocken/happy_dog_supreme/fit_well/96517</ ns3:url> <ns3:matchAccuracy>99</ns3:matchAccuracy> <ns3:dateChecked>2019-06-05T10:49:25+02:00</ns3:dateChecked> <ns3:approved>true</ns3:approved> <ns3:dateApproved>2019-06-07T12:47:16+02:00</ns3:dateApproved> <ns3:automatchUrlFields> <ns3:automatchUrlField> <ns3:name>price</ns3:name> <ns3:value>82.99</ns3:value> </ns3:automatchUrlField> <ns3:automatchUrlField> <ns3:name>name</ns3:name> <ns3:value>Happy Dog Supreme Fit & amp; Well Adult Sport</ns3:value> </ns3:automatchUrlField> </ns3:automatchUrlFields> <ns3:dateAdded>2019-06-05T10:49:25+02:00</ns3:dateAdded> <ns3:dateModified>2019-06-07T12:47:16+02:00</ns3:dateModified></pre>

	<pre> <ns3:addedById>5532</ns3:addedById> <ns3:modifiedById>5523</ns3:modifiedById> </ns3:automatchUrl> </ns3:getMultipleAutomatchUrlsResponse> </ns3:soap:Body> </ns3:soap:Envelope> </pre>
--	--

- **getUrls**

	Attributes	Type	Req	Default	Notes
Request	getUrlsRequest	complex	Y		See below for search parameters
Response	urls	complex			List of urlType elements returned by search
Possible Faults	generalError				General error detected. Refer to error details

Search contains the following element

- id - int
- idMode – string (ID | SKU | INTERNAL_ID – specifies which product field will be used for search)

UrlType complex element contains the following elements

- ... (see Price2Spy Reference Guide for the full definition, here we'll list only the AutoMatch-related fields).
- automatchUrl – **automatchUrlType** complex type (see above. This element exists only if this URL originates from an Automatched URL)

3. Example SOAP request / response (search for all URLs for given product)

Request	<pre> <soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sear="http://www.price2spy.com/api/search"> <soapenv:Header/> <soapenv:Body> <sear:getUrlsRequest> <sear:search id="16678" idMode="ID"/> <sear:apiKey>f20e1f786c8b96ab54e089f</sear:apiKey> </sear:getUrlsRequest> </soapenv:Body> </soapenv:Envelope> </pre>
Response	<pre> <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"> <soap:Body> <ns3:getUrlsResponse xmlns="http://www.price2spy.com/api/modify" xmlns:ns2="http://www.price2spy.com/api/fault" xmlns:ns3="http://www.price2spy.com/api/search"> <ns3:url> <ns3:urlId>45836</ns3:urlId> <ns3:url>http://www.amazon.com/HP-Envy-E-all---one- Printer/dp/B005PYCLXA/ref=sr_1_1?ie=UTF8&amp;qid=1336458175&amp;sr=8-1</ns3:url> <ns3:siteHumanName>Amazon.com</ns3:siteHumanName> <ns3:showInReports>true</ns3:showInReports> <ns3:active>true</ns3:active> <ns3:counterFailed>0</ns3:counterFailed> <ns3:lastError/> <ns3:lastChecked>2012-09-20T08:21:08.993+02:00</ns3:lastChecked> <ns3:lastMeasurement> <ns3:dateChecked>2012-09-20T08:21:08.997+02:00</ns3:dateChecked> <ns3:price> </pre>

	<pre> <ns3:amount>220.58</ns3:amount> <ns3:currency>AUD</ns3:currency> </ns3:price> <ns3:available>true</ns3:available> <ns3:shippingCost>3.50</ns3:shippingCost> <ns3:shippingTime>3-4 working days</ns3:shippingTime> </ns3:lastMeasurement> <ns3:image1Url> https://www.amazon.com/images/I/61K%2B0mlsGXL_AC_SL1300_.jpg </ns3:image1Url> <ns3:note1>This is a note regarding the above URL from Amazon</ns3:note1> </ns3:url> <ns3:url> <ns3:urlId>45835</ns3:urlId> <ns3:url>http://www.xyz.com.au/products/HP-Envy-114-E%252dAll%252din%252done- Wireless-Thermal-Printer.html</ns3:url> <ns3:siteHumanName>Discount Digital Photographics</ns3:siteHumanName> <ns3:showInReports>true</ns3:showInReports> <ns3:active>true</ns3:active> <ns3:counterFailed>9</ns3:counterFailed> <ns3:lastError>Products price format is changed.</ns3:lastError> <ns3:lastChecked>2012-09-20T08:21:08.990+02:00</ns3:lastChecked> <ns3:lastMeasurement> <ns3:dateChecked>2012-06-22T08:21:13.780+02:00</ns3:dateChecked> <ns3:price> <ns3:amount>272.00</ns3:amount> <ns3:currency>AUD</ns3:currency> </ns3:price> <ns3:available>true</ns3:available> </ns3:lastMeasurement> <ns3:automatchUrl> <ns3:automatchUrlId>6245837</ns3:urlId> <ns3:url> http://www.xyz.com.au/products/HP-Envy-114-E%252dAll%252din%252done- Wireless-Thermal-Printer.html</ns3:url> <ns3:matchAccuracy>100</ns3:matchAccuracy > <ns3:dateChecked>2014-01-20T08:21:09.993+02:00</ns3:dateChecked> <ns3:approved>TRUE</ns3:approved> <ns3:dateApproved>2014-01-23T09:15:08.993+02:00</ns3: dateApproved > <ns3:automatchUrlFields> <ns3:automatchUrlField> <ns3:name>name</ ns3:name> <ns3:value>Olympus DX434 5.3 Megapixel</ ns3:value> </ns3:automatchUrlField> <ns3:automatchUrlField> <ns3:name>price</ ns3:name> <ns3:value>59.50</ ns3:value> </ns3:automatchUrlField> </ns3:automatchUrlFields> </ns3:automatchUrl> </ns3:url> </ns3:getUrlsResponse> </soap:Body> </soap:Envelope> </pre>
--	--

- **promoteAutomatchUrl**

This operation will approve AutoMatched URL, and promote it to an URL.

If given site does not support multiple URLs for same product, it will also disapprove all other URLs with the AutoMatch origin for the same product.

	Attribute	Type	Req	Default	Notes
Request	promoteAutomatchUrlRequest element	int	Y		Price2Spy ID of the AutoMatchURL that we want to promote
Response	promoteAutomatchUrlResponse element	int	Y		If promotion was successful, this will contain Price2Spy URLID (which needs to be stored in your product DB as well).

Possible Faults	invalidId				If there is no AutoMatchURL with such ID in your Price2Spy account
	automatchUrlAlreadyPromoted				This AutoMatchURL has already been promoted
	generalError				General error detected. Refer to error details

1. Example SOAP request / response (AutoMatch URL successfully promoted)

Request	<pre><soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:mod="http://www.price2spy.com/api/modify"> <soapenv:Header/> <soapenv:Body> <mod:promoteAutomatchUrlRequest> <mod:automatchUrlId>6245837</mod:automatchUrlId> <mod:apiKey>3843737adj8272</mod:apiKey> </mod:promoteAutomatchUrlRequest > </soapenv:Body> </soapenv:Envelope></pre>
Response	<pre><soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"> <soap:Body> <promoteAutomatchUrlResponse xmlns="http://www.price2spy.com/api/modify" xmlns:ns2="http://www.price2spy.com/api/fault" xmlns:ns3="http://www.price2spy.com/api/search">1130668 </promoteAutomatchUrlResponse> </soap:Body> </soap:Envelope></pre>

- **rejectAutomatchUrl**

This operation will disapprove AutoMatched URL (in other words, it will be marked as wrong match)

	Attribute	Type	Req	Default	Notes
Request	promoteAutomatchUrlRequest element	Int	Y		Price2Spy ID of the AutoMatchURL that we want to reject
Response	promoteAutomatchUrlResponse element	Int	Y		The existence of this element in response means that rejection was successful.
Possible Faults	invalidId				If there is no AutoMatchURL with such ID in your Price2Spy account
	automatchUrlAlreadyPromoted				This AutoMatchURL has already been promoted, so it cannot be rejected (instead, demoteAutomatchUrl should be performed)
	generalError				General error detected. Refer to error details

2. Example SOAP request / response (AutoMatch URL successfully rejected)

Request	<pre><soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:mod="http://www.price2spy.com/api/modify"> <soapenv:Header/> <soapenv:Body> <mod:rejectAutomatchUrlRequest></pre>
----------------	--

	<pre> <mod:automatchUrlId>6245830</mod:automatchUrlId> <mod:apiKey>3843737adf8272</mod:apiKey> </mod:rejectProductRequest> </soapenv:Body> </soapenv:Envelope> </pre>
Response	<pre> <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"> <soap:Body> <rejectAutomatchUrlResponse xmlns="http://www.price2spy.com/api/modify" xmlns:ns2="http://www.price2spy.com/api/fault" xmlns:ns3="http://www.price2spy.com/api/search" /> </soap:Body> </soap:Envelope> </pre>

- **demoteAutomatchUrl**

This operation will disapprove AutoMatched URL which was previously approved (in other words, it will be marked as wrong match)

URL that was earlier created (as a result of promoteAutomatchUrl), and all its measurement records will be deleted.

	Attribute	Type	Req	Default	Notes
Request	demoteAutomatchUrlRequest element	Int	Y		Price2Spy URL ID of the AutoMatchURL that we want to demote
Response	demoteAutomatchUrlResponse element	Int	Y		The existence of this element in response means that demotion was successful.
Possible Faults	invalidId				If there is no AutoMatchURL with such ID in your Price2Spy account
	notAutomatchUrl				This URL has not been created as a result of AutoMatch URL being promoted (therefore, demote operation cannot be performed)
	generalError				General error detected. Refer to error details

3. Example SOAP request / response (AutoMatch URL successfully demoted)

Request	<pre> <soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:mod="http://www.price2spy.com/api/modify"> <soapenv:Header/> <soapenv:Body> <mod:demoteAutomatchUrlRequest> <mod:urlId>123456</mod:automatchUrlId> <mod:apiKey>3843737adf8272</mod:apiKey> </mod:demoteAutomatchUrlRequest> </soapenv:Body> </soapenv:Envelope> </pre>
Response	<pre> <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"> <soap:Body> <demoteAutomatchUrlResponse xmlns="http://www.price2spy.com/api/modify" xmlns:ns2="http://www.price2spy.com/api/fault" xmlns:ns3="http://www.price2spy.com/api/search" /> </soap:Body> </soap:Envelope> </pre>