



Position Services

Search

ver. 4

Service documentation

version 1.0



Position s.r.o.

Londýnská 665/45, 120 00 Praha 2

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2 HISTORY

Version	Published	Author	Description
1.0	26.12.2019	M. Tomeš	



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3 DESCRIPTION

Service **Position services - Search** provides a complex solution for searching addresses, validation and normalization by administrative division.

Within its scope, the following methods are provided:

search	<i>Line address search</i>
search_comp	<i>Component address search</i>
search_country	<i>Administrative level 1 search (countries)</i>
search_state	<i>Administrative level 2 search (regions, areas etc.)</i>
search_county	<i>Administrative level 3 search (counties etc.)</i>
search_city	<i>City and city part search</i>
search_postcode	<i>Post code search</i>
search_street	<i>Street search</i>
hint	<i>Hint for line address search</i>
hint_comp	<i>Hint for component address search</i>
hint_country	<i>Hint for administrative level 1 search (countries)</i>
hint_state	<i>Hint for administrative level 2 search (regions, areas etc.)</i>
hint_county	<i>Hint for administrative level 3 search (counties etc.)</i>
hint_city	<i>Hint for city and city part search</i>
hint_street	<i>Hint for street search</i>
search_id	<i>Address search by internal ID</i>
detail	<i>Address detail by internal ID</i>

Safety is ensured by optional connection through the secure channel SSL by using Thawte certificate.

Access restrictions are solved by user name and password.

The service is available at: [http\(s\)://services.position.cz/search/](http(s)://services.position.cz/search/)

There are different calling conventions:

HTTP GET	parameters passed via URL
HTTP POST x-www-form-urlencoded (in short HTTP POST FORM)	parameters passed in request body Requirements: <ul style="list-style-type: none">- Content-Type in the request header must be set to application/x-www-form-urlencoded
HTTP POST XML	no URL parameter is passed, XML with parameters is sent by the POST Requirements: <ul style="list-style-type: none">- XML must have a document element called „options“- Content-Type in the request header must be set to text/xml or application/xml- Parameter <i>cmd</i> must be specified in URL- Parameter <i>ver</i> must be specified in URL
SOAP	no URL parameter is passed with the exception of parameter <i>ver</i> Note:



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WSDL can be obtained by adding URL parameter "WSDL"

Response format for calling conventions HTTP GET, HTTP POST FORM and HTTP POST XML can be defined (using a special parameter):

XML	Output is XML document
JSON	Output is JSON object
JSON callback	Output is JavaScript code, that will call a function which name is passed using special parameter with a parameter containing result of the call Example: <pre>if (typeof myfunction=='function') myfunction({...});</pre>



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4 COMMON STRUCTURES

4.1 DT_CAPABILITIES

{	
boundingbox	record can return DT_BOUNDINGBOX structure
detail	record contains ID that can be used when calling „detail“ method
geometrypolygon	record can return GeometryPolygon field
geometryline	record can return GeometryLine field
}	

4.2 DT_POS

{	
proj	always given; name of projection
lat	given in dependence on projection; WGS-84 latitude
lon	given in dependence on projection; WGS-84 longitude
x	given in dependence on projection; x-coordinate
y	given in dependence on projection; y-coordinate
e	given in dependence on projection; e-coordinate UTM projection
n	given in dependence on projection; n-coordinate UTM projection
z	given in dependence on projection; UTM zone
c1	given in dependence on projection; reserved for other projection coordinates
c2	given in dependence on projection; reserved for other projection coordinates
c3	given in dependence on projection; reserved for other projection coordinates
c4	given in dependence on projection; reserved for other projection coordinates
}	

4.3 DT_BOUNDINGBOX

{	
min	see structure DT_POS
max	see structure DT_POS
}	

4.4 DT_STRBOUNDINGBOX

{	
min	coordinate in text form
max	coordinate in text form
}	

4.5 DT_REALSEARCHVALUES



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{	
country	text used for administrative level 1 (countries)
state	text used for administrative level 2 (regions, areas etc.)
county	text used for administrative level 3 (counties etc.)
city	text used for city or city part
postcode	text used for ZIP
street	text used for street
housesno	text used for house number
}	

4.6 DT_SOAP_CAPABILITIES

{	
BoundingBox	record can return DT_SOAP_BOUNDINGBOX structure
Detail	record contains ID that can be used when calling the „detail“ method
GeometryPolygon	record can return GeometryPolygon field
GeometryLine	record can return GeometryLine field
}	

4.7 DT_SOAP_POS

{	
Proj	always given; name of projection
Lat	given in dependence on projection; WGS-84 latitude
Lon	given in dependence on projection; WGS-84 longitude
X	given in dependence on projection; x-coordinate
Y	given in dependence on projection; y-coordinate
E	given in dependence on projection; e-coordinate UTM projection
N	given in dependence on projection; n-coordinate UTM projection
Z	given in dependence on projection; UTM zone
C1	given in dependence on projection; reserved for other projection coordinates
C2	given in dependence on projection; reserved for other projection coordinates
C3	given in dependence on projection; reserved for other projection coordinates
C4	given in dependence on projection; reserved for other projection coordinates
}	

4.8 DT_SOAP_BOUNDINGBOX

{	
Min	see structure DT_SOAP_POS
Max	see structure DT_SOAP_POS
}	



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4.9 DT_SOAP_STRBOUNDINGBOX

{	
Min	coordinate in text form
Max	coordinate in text form
}	

4.10 DT_SOAP_REALSEARCHVALUES

{	
Country	text used for administrative level 1 (countries)
State	text used for administrative level 2 (regions, areas etc.)
County	text used for administrative level 3 (counties etc.)
City	text used for city or city part
Postcode	text used for ZIP
Street	text used for street
HouseNo	text used for house number
}	

5 LINE ADDRESS SEARCH

5.1 HTTP GET - PARAMETERS

ver	mandatory; interface version Fixed value: 4								
cmd	mandatory; method name Fixed value: „search“								
text	mandatory; search text								
pgt	optional; paging type Default value: autodetection by existence of parameters <ul style="list-style-type: none"> 1. If given at least one of parameters <i>pgn</i> - <i>pgs</i>, value 1 is used 2. If given at least one of parameters <i>from</i> - <i>to</i>, value 2 is used 3. In all other cases value 3 is used Allowed values: <table border="1" style="width: 100%;"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i></td> </tr> <tr> <td>2</td> <td>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>. Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</td> </tr> <tr> <td>3</td> <td>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>. Unlike previous type this returns a flag of next page availability.</td> </tr> </table>	1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>	2	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!	3	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Unlike previous type this returns a flag of next page availability.		
1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>								
2	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!								
3	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Unlike previous type this returns a flag of next page availability.								
from	optional; first required record (records are numbered from 1) Default value: 1								
to	optional; last required record (records are numbered from 1) Default value: 10								
pgs	optional; page size (number of records per page) Default value: 10								
pgn	optional; number of the required page (pages are numbered from 1) Default value: 1								
offset	optional; number of skipped records Default value: 0								
count	optional; number of required records Default value: 10								
outproj	optional; projection of output coordinates Default value: WGS-84								
outpos	optional; required coordinate format definition Default value: 1 Allowed values: <table border="1" style="width: 100%;"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form
0	Output contains no coordinates								
1	Output coordinates in structure								
2	Output coordinates in text form								
3	Output coordinates in both - structure and text - form								
acountry	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes								
citynorm	optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values:								

	0	Off
	1	On
resfields	optional; semicolon-separated list of required special fields in output Allowed values:	
	*	All of the following values
	lvl	Result level
	ctryisoa2	Country ISO 3166-1 alpha 2 code
	ctryisoa3	Country ISO 3166-1 alpha 3 code
	ctryison	Country ISO 3166-1 numeric code
	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)
	ctrydescrcz	Full country name in Czech language
	ctrydescrcz	Abbreviated country name in Czech language
	ctrydescren	Full country name in English language
	ctrydescren	Abbreviated country name in English language
	stdescr	State/region etc. name (meaning may vary)
	staln	Name of administrative level 2 (state, region, federal republic etc.)
	ctydescr	County name etc. (meaning may vary)
	ctyaln	Name of administrative level 3 (e.g. county)
	citydescr	City name
	cityaln	Name of administrative level 4 (city, city part etc.)
	cityispart	Flag indicating whether city is a city part
	cityptdescr	City part name
	cityptaln	Name of administrative level (city part)
	pcitydescr	Parent city name
	pcityaln	Name of administrative level (parent city)
	strdescr	Street name
	hndescr	House number
	hnpost	Post code
	hnruian	RUIAN address code (for Czech addresses only)
	hnd	House number part - descriptive number
	hno	House number part - orientation number
	hnreg	House number part - registration number
	hnrepl	House number part - replacement number
	realsearchvalues	Real values used for search
nonlatout	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values:	
	1	Allowed
	2	Disabled
	3	Allowed only if non-latin alfabet in input text is used
defcntry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes	
alnlng	optional; language of administrative levels name Default value: CZE Allowed values:	



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	CZE	Czech				
	ENG	English				
	DEF	Country's default language				
refpt	<p>optional; reference geographic point used for sorting of first X found results by the distance from this point ascending Point is defined as a string using following format: [projection;]partA;partB[;partN...] where:</p> <table border="1"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA partB</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified</td> </tr> </table> <p>Example: WGS-84;50;15</p>		projection	Optional projection name. Default value: WGS-84	partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified
projection	Optional projection name. Default value: WGS-84					
partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified					
ouser	optional; user name to access the service (if authorization is used)					
apass	optional; password to access the service (if authorization is used)					
reqid	optional; used to transfer any value from input to output of the service					
output	<p>optional; output type Default value: xml Allowed values:</p> <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table> <p>Notice: In case of passing unsupported value the service returns HTTP status 400</p>		xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.	js	Output is JavaScript object
xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.					
js	Output is JavaScript object					
callback	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called					

5.2 HTTP GET - RESPONSE

request	list of input parameters		
{			
version	always given; interface version		
cmd	always given; method name		
reqid	given if <i>reqid</i> parameter is passed in; <i>reqid</i> parameter value		
text	always given; <i>text</i> parameter value		
pagingtype	always given; <i>pgt</i> parameter value		
pagenumber	given if <i>pagingtype=1</i> ; <i>pgn</i> parameter value		
pagesize	given if <i>pagingtype=1</i> ; <i>pgs</i> parameter value		
from	given if <i>pagingtype=[2, 3]</i> ; <i>from</i> parameter value		
to	given if <i>pagingtype=[2, 3]</i> ; <i>to</i> parameter value		
offset	given if <i>pagingtype=[2, 3]</i> ; <i>offset</i> parameter value		
count	given if <i>pagingtype=[2, 3]</i> ; <i>count</i> parameter value		
referencepoint	given if <i>refpt</i> parameter is passed in; <i>refpt</i> parameter value		
}			
response			
{			
error	<p>always given; error code Possible values:</p> <table border="1"> <tr> <td>0</td> <td>Operation finished correctly</td> </tr> </table>	0	Operation finished correctly
0	Operation finished correctly		

	-1	Invalid argument (parameter value, missing parameter etc.)
	-2	Authorization error
	-3	Unsupported method
	-10	Internal error
	-101	No result found
	-102	Search was interrupted
	-103	No more results found (occurs when parameter <i>pgn</i> >1 or parameter <i>from</i> >1 or parameter <i>offset</i> > 0 and no more search results were found)
	-201	No match for an item that is required
	-202	Too many results Solution: Specify more exact text
	-203	No match found for defined contractual restrictions (internal system error)
	-204	No match between defined contractual and user restrictions Solution: Enter only user conditions that are allowed by contract conditions
errormessage		always given; error message
count		given if <i>error</i> =0; number of results in field <i>results</i>
prevavail		given if <i>error</i> =0; availability of previous page Possible values:
	0	Previous page is not available
	1	Previous page is available
nextavail		given if <i>error</i> =0; availability of the next page Possible values:
	0	Next page is not available
	1	Next page is available
results		given if <i>error</i> =0; results array
[{		
id		always given; record ID
descr		always given; description
descrex		always given; extended description
capabilities		always given; result properties (see structure <i>DT_CAPABILITIES</i>)
pos		given if parameter <i>outpos</i> =[1, 3]; coordinates (see structure <i>DT_POS</i>)
strpos		given if parameter <i>outpos</i> =[2, 3]; coordinates in text form
boundingbox		given if <i>capabilities</i> contains item <i>boundingbox</i> and parameter <i>outpos</i> =[1, 3]; coordinates of bounding box (see structure <i>DT_BOUNDINGBOX</i>)
strboundingbox		given if <i>capabilities</i> contains item <i>boundingbox</i> and parameter <i>outpos</i> =[2, 3]; coordinates of bounding box in text form (see structure <i>DT_STRBOUNDINGBOX</i>)
level		given if parameter <i>resfields</i> contains value <i>lvl</i> ; result level Possible values:
	country	administrative level 1 (country)
	state	administrative level 2 (e.g. state, region, federal republic)
	county	administrative level 3 (e.g. county)
	city	city, city part

	street	street
	house_no	house number
countryisoa2	given if parameter <i>resfields</i> contains value <i>ctryisoa2</i> ; country ISO 3166-1 alpha 2 code	
countryisoa3	given if parameter <i>resfields</i> contains value <i>ctryisoa3</i> ; country ISO 3166-1 alpha 3 code	
countryison	given if parameter <i>resfields</i> contains value <i>ctryison</i> ; country ISO 3166-1 numeric code	
countryivrc	given if parameter <i>resfields</i> contains value <i>ctryivrc</i> ; country code used for registration plates of vehicles	
countryshortdescrcz	given if parameter <i>resfields</i> contains value <i>ctrydescrcz</i> ; abbreviated country name in czech language	
countrydescrcz	given if parameter <i>resfields</i> contains value <i>ctrydescrcz</i> ; full country name in czech language	
countryshortdescren	given if parameter <i>resfields</i> contains value <i>ctrydescren</i> ; abbreviated country name in english language	
countrydescren	given if parameter <i>resfields</i> contains value <i>ctrydescren</i> ; full country name in english language	
statedescr	given if parameter <i>resfields</i> contains value <i>stdescr</i> and results are from level "state" and lower; name of region/area etc. (meaning may vary)	
stateadminlevelname	given if parameter <i>resfields</i> contains value <i>staln</i> and results are from level „state“ and lower; name of administrative level 2 (state, region, federal republic etc.)	
countydescr	given if parameter <i>resfields</i> contains value <i>ctydescr</i> and results are from level „county“ and lower; name of county etc. (meaning may vary)	
countyadminlevelname	given if parameter <i>resfields</i> contains value <i>ctyaln</i> and results are from level „county“ and lower; name of administrative level 3 (e.g. county)	
citydescr	given if parameter <i>resfields</i> contains value <i>citydescr</i> and results are from level „city“ and lower; city name	
cityadminlevelname	given if parameter <i>resfields</i> contains value <i>cityaln</i> and results are from level „city“ and lower; name of administrative level 4 (city, city part etc.)	
cityispart	given if parameter <i>resfields</i> contains value <i>cityispart</i> and results are from level „city“ and lower; a flag indicating whether city is a city part either	
parentcitydescr	given if parameter <i>resfields</i> contains value <i>pcitydescr</i> and results are from level „city“ and lower; parent city name Note: If the field <i>cityispart</i> =0 or parameter <i>citynorm</i> =1 content of this field is always empty	
parentcityadminlevelname	given if parameter <i>resfields</i> contains value <i>pcityaln</i> and results are from level „city“ and lower; name of administrative level (parent city) Note: If the field <i>cityispart</i> =0 or parameter <i>citynorm</i> =1 content of this field is always empty	
citypartdescr	given if parameter <i>resfields</i> contains value <i>cityptdescr</i> and results are from level „city“ and lower; city part name Note: If parameter <i>citynorm</i> =0 content of this field is always empty	
citypartadminlevelname	given if parameter <i>resfields</i> contains value <i>cityptaln</i> and results are from level „city“ and lower; name of administrative level (city part) Note: If parameter <i>citynorm</i> =0 content of this field is always empty	



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streetdescr	given if parameter <i>resfields</i> contains value <i>strdescr</i> and results are from level „street“ and lower; street name
housenodescr	given if parameter <i>resfields</i> contains value <i>hndescr</i> and results are from level „house_no“ and lower; house number
housenopostcode	given if parameter <i>resfields</i> contains value <i>hnpost</i> and results are from level „house_no“ and lower; post code
housenoruian	given if parameter <i>resfields</i> contains value <i>hnruian</i> and results are from level „house_no“ and lower; RUIAN address code (for Czech addresses only)
housenodescriptive	given if parameter <i>resfields</i> contains value <i>hnd</i> and results are from level „house_no“ and lower; house number part - descriptive number
housenoorientation	given if parameter <i>resfields</i> contains value <i>hno</i> and results are from level „house_no“ and lower; house number part - orientation number
housenoregistration	given if parameter <i>resfields</i> contains value <i>hnreg</i> and results are from level „house_no“ and lower; house number part - registration number
housenoreplacement	given if parameter <i>resfields</i> contains value <i>hnrepl</i> and results are from level „house_no“ and lower; house number part - replacement number
matchpercentage	always given; match percentage between search values and result item
referencepointdistance	given if parameter <i>refpt</i> is passed in; distance between reference point and result item (in metres)
} , ...]	
boundingbox	given if parameter <i>outpos</i> =[1, 3]; all results bounding box coordinates (see structure <i>DT_BOUNDINGBOX</i>)
strboundingbox	given if parameter <i>outpos</i> =[2, 3]; all results bounding box string coordinates (see structure <i>DT_STRBOUNDINGBOX</i>)
precision	given in parameter <i>outpos</i> =[1, 2, 3]; diagonal of all results bounding box in meters
realsearchvalues	given if parameter <i>resfields</i> contains value <i>realsearchvalues</i> ; real search values (see structure <i>DT_REALSEARCHVALUES</i>)
}	

5.3 HTTP POST FORM - PARAMETERS

see [HTTP GET - parameters](#)

5.4 HTTP POST FORM - RESPONSE

see [HTTP GET - response](#)

5.5 HTTP POST XML - PARAMETERS

5.5.1 URL PARAMETERS

ver	mandatory; interface version Fixed value: 4
-----	--



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cmd	mandatory; method name Fixed value: „search“
-----	---

5.5.2 REQUEST BODY

<options>									
<text>	mandatory; search text								
<pgt>	optional; paging type Default value: autodetection by existence of parameters <ul style="list-style-type: none"> 1. If given at least one of parameters <i>pgn</i> - <i>pgs</i>, value 1 is used 2. If given at least one of parameters <i>from</i> - <i>to</i>, value 2 is used 3. In all other cases value 3 is used Allowed values: <table border="1" style="width: 100%;"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i></td> </tr> <tr> <td>2</td> <td>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>. Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</td> </tr> <tr> <td>3</td> <td>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>. Unlike previous type this returns a flag of next page availability.</td> </tr> </table>	1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>	2	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!	3	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Unlike previous type this returns a flag of next page availability.		
1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>								
2	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!								
3	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Unlike previous type this returns a flag of next page availability.								
<from>	optional; first required record (records are numbered from 1) Default value: 1								
<to>	optional; last required record (records are numbered from 1) Default value: 10								
<pgs>	optional; page size (number of records per page) Default value: 10								
<pgn>	optional; number of the required page (pages are numbered from 1) Default value: 1								
<offset>	optional; number of skipped records Default value: 0								
<count>	optional; number of required records Default value: 10								
<outproj>	optional; projection of output coordinates Default value: WGS-84								
<outpos>	optional; required coordinate format definition Default value: 1 Allowed values: <table border="1" style="width: 100%;"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form
0	Output contains no coordinates								
1	Output coordinates in structure								
2	Output coordinates in text form								
3	Output coordinates in both - structure and text - form								
<acountry>	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes								
<citynorm>	optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values:								

	0	Off																																																												
	1	On																																																												
<resfields>	<p>optional; semicolon-separated list of required special fields in output Allowed values:</p> <table border="1"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>lvl</td> <td>Result level</td> </tr> <tr> <td>ctryisoa2</td> <td>Country ISO 3166-1 alpha 2 code</td> </tr> <tr> <td>ctryisoa3</td> <td>Country ISO 3166-1 alpha 3 code</td> </tr> <tr> <td>ctryison</td> <td>Country ISO 3166-1 numeric code</td> </tr> <tr> <td>ctryivrc</td> <td>Country code used for vehicle licence plates (international vehicle registration code)</td> </tr> <tr> <td>ctrysdscrcz</td> <td>Full country name in Czech language</td> </tr> <tr> <td>ctrydescrcz</td> <td>Abbreviated country name in Czech language</td> </tr> <tr> <td>ctrysdscren</td> <td>Full country name in English language</td> </tr> <tr> <td>ctrydescren</td> <td>Abbreviated country name in English language</td> </tr> <tr> <td>stdescr</td> <td>State/region etc. name (meaning may vary)</td> </tr> <tr> <td>staln</td> <td>Name of administrative level 2 (state, region, federal republic etc.)</td> </tr> <tr> <td>ctydescr</td> <td>County name etc. (meaning may vary)</td> </tr> <tr> <td>ctyaln</td> <td>Name of administrative level 3 (e.g. county)</td> </tr> <tr> <td>citydescr</td> <td>City name</td> </tr> <tr> <td>cityaln</td> <td>Name of administrative level 4 (city, city part etc.)</td> </tr> <tr> <td>cityispart</td> <td>Flag indicating whether city is a city part</td> </tr> <tr> <td>cityptdescr</td> <td>City part name</td> </tr> <tr> <td>cityptaln</td> <td>Name of administrative level (city part)</td> </tr> <tr> <td>pcitydescr</td> <td>Parent city name</td> </tr> <tr> <td>pcityaln</td> <td>Name of administrative level (parent city)</td> </tr> <tr> <td>strdescr</td> <td>Street name</td> </tr> <tr> <td>hnddescr</td> <td>House number</td> </tr> <tr> <td>hnpost</td> <td>Post code</td> </tr> <tr> <td>hnruian</td> <td>RUIAN address code (for Czech addresses only)</td> </tr> <tr> <td>hnd</td> <td>House number part - descriptive number</td> </tr> <tr> <td>hno</td> <td>House number part - orientation number</td> </tr> <tr> <td>hnreg</td> <td>House number part - registration number</td> </tr> <tr> <td>hnrepl</td> <td>House number part - replacement number</td> </tr> <tr> <td>realsearchvalues</td> <td>Real values used for search</td> </tr> </table>		*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code	ctryisoa3	Country ISO 3166-1 alpha 3 code	ctryison	Country ISO 3166-1 numeric code	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)	ctrysdscrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrysdscren	Full country name in English language	ctrydescren	Abbreviated country name in English language	stdescr	State/region etc. name (meaning may vary)	staln	Name of administrative level 2 (state, region, federal republic etc.)	ctydescr	County name etc. (meaning may vary)	ctyaln	Name of administrative level 3 (e.g. county)	citydescr	City name	cityaln	Name of administrative level 4 (city, city part etc.)	cityispart	Flag indicating whether city is a city part	cityptdescr	City part name	cityptaln	Name of administrative level (city part)	pcitydescr	Parent city name	pcityaln	Name of administrative level (parent city)	strdescr	Street name	hnddescr	House number	hnpost	Post code	hnruian	RUIAN address code (for Czech addresses only)	hnd	House number part - descriptive number	hno	House number part - orientation number	hnreg	House number part - registration number	hnrepl	House number part - replacement number	realsearchvalues	Real values used for search
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realsearchvalues	Real values used for search																																																													
<nonlatout>	<p>optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>		1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used																																																						
1	Allowed																																																													
2	Disabled																																																													
3	Allowed only if non-latin alfabet in input text is used																																																													
<defcntry>	<p>optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes</p>																																																													
<alnlang>	<p>optional; language of administrative levels name Default value: CZE Allowed values:</p>																																																													

	CZE	Czech				
	ENG	English				
	DEF	Country's default language				
<refpt>	<p>optional; reference geographic point used for sorting of first X found results by the distance from this point ascending Point is defined as a string using following format: [projection;]partA;partB[;partN...] where:</p> <table border="1"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA partB</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified</td> </tr> </table> <p>Example: WGS-84;50;15</p>		projection	Optional projection name. Default value: WGS-84	partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified
projection	Optional projection name. Default value: WGS-84					
partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified					
<auser>	optional; user name to access the service (if authorization is used)					
<apass>	optional; password to access the service (if authorization is used)					
<reqid>	optional; used to transfer any value from input to output of the service					
<output>	<p>optional; output type Default value: xml Allowed values:</p> <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table> <p>Notice: In case of passing unsupported value the service returns HTTP status 400</p>		xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.	js	Output is JavaScript object
xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.					
js	Output is JavaScript object					
<callback>	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called					
</options>						

5.6 HTTP POST XML - RESPONSE

see [HTTP GET - response](#)

5.7 SOAP - PARAMETERS

SOAP interface method: Search

Text	mandatory; search text				
PagingType	<p>optional; paging type Default value: autodetection by existence of parameters</p> <ol style="list-style-type: none"> If given at least one of parameters <i>PageNumber</i> - <i>PageSize</i>, value 1 is used If given at least one of parameters <i>RecordFrom</i> - <i>RecordTo</i>, value 2 is used In all other cases value 3 is used <p>Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters <i>PageSize</i> and <i>PageNumber</i></td> </tr> <tr> <td>2</td> <td>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>.</td> </tr> </table> <p>Notice: This paging type doesn't return a flag of next page availability, respectively</p>	1	paging by pages; for further setting use parameters <i>PageSize</i> and <i>PageNumber</i>	2	paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i> .
1	paging by pages; for further setting use parameters <i>PageSize</i> and <i>PageNumber</i>				
2	paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i> .				

	3	the value of this flag is always 0!!! paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i> . Unlike previous type this returns a flag of next page availability.
RecordFrom		optional; first required record (records are numbered from 1) Default value: 1
RecordTo		optional; last required record (records are numbered from 1) Default value: 10
PageSize		optional; page size (number of records per page) Default value: 10
PageNumber		optional; number of the required page (pages are numbered from 1) Default value: 1
Offset		optional; number of skipped records Default value: 0
Count		optional; number of required records Default value: 10
OutputProjection		optional; projection of output coordinates Default value: WGS-84
OutputPosition		optional; required coordinate format definition Default value: 1 Allowed values:
	0	Output contains no coordinates
	1	Output coordinates in structure
	2	Output coordinates in text form
	3	Output coordinates in both - structure and text - form
AllowedCountries		optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes
CityNormalization		optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values:
	0	Off
	1	On
ResultFields		optional; semicolon-separated list of required special fields in output Allowed values:
	*	All of the following values
	lvl	Result level
	ctryisoa2	Country ISO 3166-1 alpha 2 code
	ctryisoa3	Country ISO 3166-1 alpha 3 code
	ctryison	Country ISO 3166-1 numeric code
	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)
	ctrydescrcz	Full country name in Czech language
	ctrydescrcz	Abbreviated country name in Czech language
	ctrydescren	Full country name in English language
	ctrydescren	Abbreviated country name in English language
	stdescr	State/region etc. name (meaning may vary)
	staln	Name of administrative level 2 (state, region, federal republic etc.)

	ctydescr	County name etc. (meaning may vary)
	ctyaln	Name of administrative level 3 (e.g. county)
	citydescr	City name
	cityaln	Name of administrative level 4 (city, city part etc.)
	cityispart	Flag indicating whether city is a city part
	cityptdescr	City part name
	cityptaln	Name of administrative level (city part)
	pcitydescr	Parent city name
	pcityaln	Name of administrative level (parent city)
	strdescr	Street name
	hnddescr	House number
	hnpost	Post code
	hnruian	RUIAN address code (for Czech addresses only)
	hnd	House number part - descriptive number
	hno	House number part - orientation number
	hnreg	House number part - registration number
	hnrepl	House number part - replacement number
	realsearchvalues	Real values used for search
AllowNonLatinOutput	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values:	
	1	Allowed
	2	Disabled
	3	Allowed only if non-latin alfabet in input text is used
DefaultCountry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes	
AdminLevelNameLang	optional; language of administrative levels name Default value: CZE Allowed values:	
	CZE	Czech
	ENG	English
	DEF	Country's default language
ReferencePoint	optional; reference geographic point used for sorting of first X found results by the distance from this point ascending Point is defined as a string using following format: [projection;]partA;partB;partN...] where:	
	projection	Optional projection name. Default value: WGS-84
	partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified
	Example: WGS-84;50;15	
User	optional; user name to access the service (if authorization is used)	
Password	optional; password to access the service (if authorization is used)	
ReqID	optional; used to transfer any value from input to output of the service	

5.8 SOAP - RESPONSE

Request	list of input parameters																								
{																									
Version	always given; interface version																								
ReqID	given if <i>ReqID</i> parameter is passed in; <i>ReqID</i> parameter value																								
Text	always given; <i>Text</i> parameter value																								
PagingType	always given; <i>PagingType</i> parameter value																								
PageNumber	given if <i>PagingType</i> =1; <i>PageNumber</i> parameter value																								
PageSize	given if <i>PagingType</i> =1; <i>PageSize</i> parameter value																								
From	given if <i>PagingType</i> =[2, 3]; <i>RecordFrom</i> parameter value																								
To	given if <i>PagingType</i> =[2, 3]; <i>RecordTo</i> parameter value																								
Offset	given if <i>PagingType</i> =[2, 3]; <i>Offset</i> parameter value																								
Count	given if <i>PagingType</i> =[2, 3]; <i>Count</i> parameter value																								
ReferencePoint	given if <i>ReferencePoint</i> parameter is passed in; <i>ReferencePoint</i> parameter value																								
}																									
Response																									
{																									
Error	<p>always given; error code</p> <p>Possible values:</p> <table border="1"> <tr><td>0</td><td>Operation finished with no error</td></tr> <tr><td>-1</td><td>Invalid argument (parameter value, missing parameter etc.)</td></tr> <tr><td>-2</td><td>Authorization error</td></tr> <tr><td>-3</td><td>Unsupported method</td></tr> <tr><td>-10</td><td>Internal error</td></tr> <tr><td>-101</td><td>No result found</td></tr> <tr><td>-102</td><td>Search was interrupted</td></tr> <tr><td>-103</td><td>No more results found (occurs when parameter <i>PageNumber</i>>1 or parameter <i>RecordFrom</i>>1 or parameter <i>Offset</i>>0 and no more search results were found)</td></tr> <tr><td>-201</td><td>No match for an item that is required</td></tr> <tr><td>-202</td><td>Too many results Solution: Specify more exact text</td></tr> <tr><td>-203</td><td>No match found for defined contractual restrictions (internal system error)</td></tr> <tr><td>-204</td><td>No match between defined contractual and user restrictions Solution: Enter only user conditions that are allowed by contract conditions</td></tr> </table>	0	Operation finished with no error	-1	Invalid argument (parameter value, missing parameter etc.)	-2	Authorization error	-3	Unsupported method	-10	Internal error	-101	No result found	-102	Search was interrupted	-103	No more results found (occurs when parameter <i>PageNumber</i> >1 or parameter <i>RecordFrom</i> >1 or parameter <i>Offset</i> >0 and no more search results were found)	-201	No match for an item that is required	-202	Too many results Solution: Specify more exact text	-203	No match found for defined contractual restrictions (internal system error)	-204	No match between defined contractual and user restrictions Solution: Enter only user conditions that are allowed by contract conditions
0	Operation finished with no error																								
-1	Invalid argument (parameter value, missing parameter etc.)																								
-2	Authorization error																								
-3	Unsupported method																								
-10	Internal error																								
-101	No result found																								
-102	Search was interrupted																								
-103	No more results found (occurs when parameter <i>PageNumber</i> >1 or parameter <i>RecordFrom</i> >1 or parameter <i>Offset</i> >0 and no more search results were found)																								
-201	No match for an item that is required																								
-202	Too many results Solution: Specify more exact text																								
-203	No match found for defined contractual restrictions (internal system error)																								
-204	No match between defined contractual and user restrictions Solution: Enter only user conditions that are allowed by contract conditions																								
ErrorMessage	always given; error message																								
Count	given if <i>Error</i> =0; number of results in field <i>Results</i>																								
PrevAvail	<p>given if <i>Error</i>=0; availability of previous page</p> <p>Possible values:</p> <table border="1"> <tr><td>0</td><td>Previous page is not available</td></tr> <tr><td>1</td><td>Previous page is available</td></tr> </table>	0	Previous page is not available	1	Previous page is available																				
0	Previous page is not available																								
1	Previous page is available																								
NextAvail	<p>given if <i>Error</i>=0; availability of the next page</p> <p>Possible values:</p> <table border="1"> <tr><td>0</td><td>Next page is not available</td></tr> </table>	0	Next page is not available																						
0	Next page is not available																								



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	1	Next page is available
Results	given if <i>Error</i> =0; results array	
[{		
ID	always given; record ID	
Descr	always given; description	
DescrEx	always given; extended description	
Capabilities	always given; result properties (see structure <i>DT_SOAP_CAPABILITIES</i>)	
Pos	given if parameter <i>OutputPosition</i> =[1, 3]; coordinates (see structure <i>DT_SOAP_POS</i>)	
StrPos	given if parameter <i>OutputPosition</i> =[2, 3]; coordinates in text form	
BoundingBox	given if <i>Capabilities</i> contains item <i>BoundingBox</i> and parameter <i>OutputPosition</i> =[1, 3]; coordinates of bounding box (see structure <i>DT_SOAP_BOUNDINGBOX</i>)	
StrBoundingBox	given if <i>Capabilities</i> contains item <i>BoundingBox</i> and parameter <i>OutputPosition</i> =[2, 3]; coordinates of bounding box in text form (see structure <i>DT_SOAP_STRBOUNDINGBOX</i>)	
Level	given if parameter <i>ResultFields</i> contains value <i>lvl</i> ; result level Possible values:	
country	administrative level 1 (country)	
state	administrative level 2 (e.g. state, region, federal republic)	
county	administrative level 3 (e.g. county)	
city	city, city part	
street	street	
house_no	house number	
CountryISOA2	given if parameter <i>ResultFields</i> contains value <i>ctryisoa2</i> ; country ISO 3166-1 alpha 2 code	
CountryISOA3	given if parameter <i>ResultFields</i> contains value <i>ctryisoa3</i> ; country ISO 3166-1 alpha 3 code	
CountryISON	given if parameter <i>ResultFields</i> contains value <i>ctryison</i> ; country ISO 3166-1 numeric code	
CountryIVRC	given if parameter <i>ResultFields</i> contains value <i>ctryivrc</i> ; country code used for registration plates of vehicles	
CountryShortDescrCZ	given if parameter <i>ResultFields</i> contains value <i>ctrydescrcz</i> ; abbreviated country name in czech language	
CountryDescrCZ	given if parameter <i>ResultFields</i> contains value <i>ctrydescrcz</i> ; full country name in czech language	
CountryShortDescrEN	given if parameter <i>ResultFields</i> contains value <i>ctrydescren</i> ; abbreviated country name in english language	
CountryDescrEN	given if parameter <i>ResultFields</i> contains value <i>ctrydescren</i> ; full country name in english language	
StateDescr	given if parameter <i>ResultFields</i> contains value <i>stdescr</i> and results are from level "state" and lower; name of region/area etc. (meaning may vary)	
StateAdminLevelName	given if parameter <i>ResultFields</i> contains value <i>staln</i> and results are from level „state“ and lower; name of administrative level 2 (state, region, federal republic etc.)	
CountyDescr	given if parameter <i>ResultFields</i> contains value <i>ctydescr</i> and results are from level „county“ and lower; name of county etc. (meaning may vary)	

CountyAdminLevelName	given if parameter <i>ResultFields</i> contains value <i>ctyaln</i> and results are from level „county“ and lower; name of administrative level 3 (e.g. county)
CityDescr	given if parameter <i>ResultFields</i> contains value <i>citydescr</i> and results are from level „city“ and lower; city name
CityAdminLevelName	given if parameter <i>ResultFields</i> contains value <i>cityaln</i> and results are from level „city“ and lower; name of administrative level 4 (city, city part etc.)
CityIsPart	given if parameter <i>ResultFields</i> contains value <i>cityispart</i> and results are from level „city“ and lower; a flag indicating whether city is a city part either
ParentCityDescr	given if parameter <i>ResultFields</i> contains value <i>pcitydescr</i> and results are from level „city“ and lower; parent city name Note: If the field <i>CityIsPart</i> =0 or parameter <i>CityNormalization</i> =1 content of this field is always empty
ParentCityAdminLevelName	given if parameter <i>ResultFields</i> contains value <i>pcityaln</i> and results are from level „city“ and lower; name of administrative level (parent city) Note: If the field <i>CityIsPart</i> =0 or parameter <i>CityNormalization</i> =1 content of this field is always empty
CityPartDescr	given if parameter <i>ResultFields</i> contains value <i>cityptdescr</i> and results are from level „city“ and lower; city part name Note: If parameter <i>CityNormalization</i> =0 content of this field is always empty
CityPartAdminLevelName	given if parameter <i>ResultFields</i> contains value <i>cityptaln</i> and results are from level „city“ and lower; name of administrative level (city part) Note: If parameter <i>CityNormalization</i> =0 content of this field is always empty
StreetDescr	given if parameter <i>ResultFields</i> contains value <i>strdescr</i> and results are from level „street“ and lower; street name
HouseNoDescr	given if parameter <i>ResultFields</i> contains value <i>hndescr</i> and results are from level „house_no“ and lower; house number
HouseNoPostCode	given if parameter <i>ResultFields</i> contains value <i>hnpost</i> and results are from level „house_no“ and lower; post code
HouseNoRUIAN	given if parameter <i>ResultFields</i> contains value <i>hnruian</i> and results are from level „house_no“ and lower; RUIAN address code (for Czech addresses only)
HouseNoDescriptive	given if parameter <i>ResultFields</i> contains value <i>hnd</i> and results are from level „house_no“ and lower; house number part - descriptive number
HouseNoOrientation	given if parameter <i>ResultFields</i> contains value <i>hno</i> and results are from level „house_no“ and lower; house number part - orientation number
HouseNoRegistration	given if parameter <i>ResultFields</i> contains value <i>hnreg</i> and results are from level „house_no“ and lower; house number part - registration number
HouseNoReplacement	given if parameter <i>ResultFields</i> contains value <i>hnrepl</i> and results are from level „house_no“ and lower; house number part - replacement number
MatchPercentage	always given; match percentage between search values and result item
ReferencePointDistance	given if parameter <i>ReferencePoint</i> is passed in; distance between reference point and result item (in metres)



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<code>}, ...]</code>	
BoundingBox	given if parameter <i>OutputPosition</i> =[1, 3]; all results bounding box coordinates (see structure <i>DT_SOAP_BOUNDINGBOX</i>)
StrBoundingBox	given if parameter <i>OutputPosition</i> =[2, 3]; all results bounding box string coordinates (see structure <i>DT_SOAP_STRBOUNDINGBOX</i>)
Precision	given in parameter <i>OutputPosition</i> =[1, 2, 3]; diagonal of all results bounding box in meters
RealSearchValues	given if parameter <i>ResultFields</i> contains value <i>realsearchvalues</i> ; real search values (see structure <i>DT_SOAP_REALSEARCHVALUES</i>)
<code>}</code>	

5.9 EXAMPLES

5.9.1 HTTP GET

Request:

http://services.position.cz/search/?cmd=search&ver=4&text=pihel&resfields=*

Response:

```
<?xml version="1.0" encoding="UTF-8"?>
<searchresults>
  <request>
    <version>4</version>
    <cmd>search</cmd>
    <text>pihel</text>
    <pagingtype>3</pagingtype>
    <offset>0</offset>
    <count>10</count>
  </request>
  <response>
    <error>0</error>
    <errormessage />
    <count>1</count>
    <prevavail>0</prevavail>
    <nextavail>0</nextavail>
    <results>
      <item>
        <id>city;550639098</id>
        <descr>Nový Bor - Pihel</descr>
        <descres>okres Česká Lípa</descres>
        <capabilities>
          <detail>1</detail>
          <boundingbox>1</boundingbox>
          <geometrypolygon>1</geometrypolygon>
        </capabilities>
        <pos>
          <proj>WGS-84</proj>
          <lat>50.73209</lat>
          <lon>14.54675</lon>
        </pos>
        <level>city</level>
        <countryisoa2>CZ</countryisoa2>
      </item>
    </results>
  </response>
</searchresults>
```



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```
<countryisoa3>CZE</countryisoa3>
<countryison>203</countryison>
<countryivrc>CZ</countryivrc>
<countryshortdescrcz>Česko</countryshortdescrcz>
<countrydescrcz>Česká republika</countrydescrcz>
<countryshortdescscn>Czech Republic</countryshortdescscn>
<countrydescscn>Czech Republic</countrydescscn>
<statedescr>Liberecký kraj</statedescr>
<stateadminlevelname>kraj</stateadminlevelname>
<countydescr>Česká Lípa</countydescr>
<countyadminlevelname>okres</countyadminlevelname>
<citydescr>Pihel</citydescr>
<cityadminlevelname>část obce</cityadminlevelname>
<cityispart>1</cityispart>
<parentcitydescr>Nový Bor</parentcitydescr>
<parentcityadminlevelname>obec</parentcityadminlevelname>
<citypartdescr />
<citypartadminlevelname />
<matchpercentage>100</matchpercentage>
</item>
</results>
<boundingbox>
  <min>
    <proj>WGS-84</proj>
    <lat>50.7147</lat>
    <lon>14.5406</lon>
  </min>
  <max>
    <proj>WGS-84</proj>
    <lat>50.73604</lat>
    <lon>14.5741</lon>
  </max>
</boundingbox>
<precision>3351.26941732</precision>
<realsearchvalues>
  <country />
  <state />
  <county />
  <city>pihel</city>
  <postcode />
  <street />
  <housetno />
</realsearchvalues>
</response>
</searchresults>
```

5.9.2 HTTP POST XML

Request:

<http://services.position.cz/search/?cmd=search&ver=4>

POST data:

```
<?xml version="1.0" encoding="utf-8"?>
<options>
```



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```
<text>pihel</text>
<resfields>*</resfields>
</options>
```

Response:

```
<?xml version="1.0" encoding="UTF-8"?>
<searchresults>
  <request>
    <version>4</version>
    <cmd>search</cmd>
    <text>pihel</text>
    <pagingtype>3</pagingtype>
    <offset>0</offset>
    <count>10</count>
  </request>
  <response>
    <error>0</error>
    <errormessage />
    <count>1</count>
    <prevavail>0</prevavail>
    <nextavail>0</nextavail>
    <results>
      <item>
        <id>city;550639098</id>
        <descr>Nový Bor - Pihel</descr>
        <descrcx>okres Česká Lípa</descrcx>
        <capabilities>
          <detail>1</detail>
          <boundingbox>1</boundingbox>
          <geometrypolygon>1</geometrypolygon>
        </capabilities>
        <pos>
          <proj>WGS-84</proj>
          <lat>50.73209</lat>
          <lon>14.54675</lon>
        </pos>
        <level>city</level>
        <countryisoa2>CZ</countryisoa2>
        <countryisoa3>CZE</countryisoa3>
        <countryison>203</countryison>
        <countryivrc>CZ</countryivrc>
        <countryshortdescrcz>Česko</countryshortdescrcz>
        <countrydescrcz>Česká republika</countrydescrcz>
        <countryshortdescrcen>Czech Republic</countryshortdescrcen>
        <countrydescrcen>Czech Republic</countrydescrcen>
        <statedescr>Liberecký kraj</statedescr>
        <stateadminlevelname>kraj</stateadminlevelname>
        <countydescr>Česká Lípa</countydescr>
        <countyadminlevelname>okres</countyadminlevelname>
        <citydescr>Pihel</citydescr>
        <cityadminlevelname>část obce</cityadminlevelname>
        <cityispart>1</cityispart>
        <parentcitydescr>Nový Bor</parentcitydescr>
        <parentcityadminlevelname>obec</parentcityadminlevelname>
        <citypartdescr />
```



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```
        <citypartadminlevelname />
        <matchpercentage>100</matchpercentage>
    </item>
</results>
<boundingbox>
    <min>
        <proj>WGS-84</proj>
        <lat>50.7147</lat>
        <lon>14.5406</lon>
    </min>
    <max>
        <proj>WGS-84</proj>
        <lat>50.73604</lat>
        <lon>14.5741</lon>
    </max>
</boundingbox>
<precision>3351.26941732</precision>
<realsearchvalues>
    <country />
    <state />
    <county />
    <city>pihel</city>
    <postcode />
    <street />
    <housetno />
</realsearchvalues>
</response>
</searchresults>
```


6 COMPONENT ADDRESS SEARCH

6.1 HTTP GET - PARAMETERS

ver	mandatory; interface version Fixed value: 4								
cmd	mandatory; method name Fixed value: „search_comp“								
country	optional ¹ ; search text for administrative level 1 (country)								
state	optional ¹ ; search text for administrative level 1 (state, region, federal republic etc.)								
county	optional ¹ ; search text for administrative level 1 (county)								
city	optional ¹ ; search text for city and city part								
postcode	optional ¹ ; search text for post code								
street	optional ¹ ; search text for street								
house_no	optional ¹ ; search text for house number								
pgt	optional; paging type Default value: autodetection by existence of parameters <ol style="list-style-type: none"> 1. If given at least one of parameters <i>pgn</i> - <i>pgs</i>, value 1 is used 2. If given at least one of parameters <i>from</i> - <i>to</i>, value 2 is used 3. In all other cases value 3 is used Allowed values: <table border="1"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i></td> </tr> <tr> <td>2</td> <td>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>. Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</td> </tr> <tr> <td>3</td> <td>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>. Unlike previous type this returns a flag of next page availability.</td> </tr> </table>	1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>	2	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!	3	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Unlike previous type this returns a flag of next page availability.		
1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>								
2	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!								
3	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Unlike previous type this returns a flag of next page availability.								
from	optional; first required record (records are numbered from 1) Default value: 1								
to	optional; last required record (records are numbered from 1) Default value: 10								
pgs	optional; page size (number of records per page) Default value: 10								
pgn	optional; number of the required page (pages are numbered from 1) Default value: 1								
offset	optional; number of skipped records Default value: 0								
count	optional; number of required records Default value: 10								
outproj	optional; projection of output coordinates Default value: WGS-84								
outpos	optional; required coordinate format definition Default value: 1 Allowed values: <table border="1"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form
0	Output contains no coordinates								
1	Output coordinates in structure								
2	Output coordinates in text form								
3	Output coordinates in both - structure and text - form								



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acountry	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes																																																												
citynorm	optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values: <table border="1"> <tr> <td>0</td> <td>Off</td> </tr> <tr> <td>1</td> <td>On</td> </tr> </table>	0	Off	1	On																																																								
0	Off																																																												
1	On																																																												
resfields	optional; semicolon-separated list of required special fields in output Allowed values: <table border="1"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>lvl</td> <td>Result level</td> </tr> <tr> <td>ctryisoa2</td> <td>Country ISO 3166-1 alpha 2 code</td> </tr> <tr> <td>ctryisoa3</td> <td>Country ISO 3166-1 alpha 3 code</td> </tr> <tr> <td>ctryison</td> <td>Country ISO 3166-1 numeric code</td> </tr> <tr> <td>ctryivrc</td> <td>Country code used for vehicle licence plates (international vehicle registration code)</td> </tr> <tr> <td>ctrydescrcz</td> <td>Full country name in Czech language</td> </tr> <tr> <td>ctrydescrcz</td> <td>Abbreviated country name in Czech language</td> </tr> <tr> <td>ctrydescren</td> <td>Full country name in English language</td> </tr> <tr> <td>ctrydescren</td> <td>Abbreviated country name in English language</td> </tr> <tr> <td>stdescr</td> <td>State/region etc. name (meaning may vary)</td> </tr> <tr> <td>staln</td> <td>Name of administrative level 2 (state, region, federal republic etc.)</td> </tr> <tr> <td>ctydescr</td> <td>County name etc. (meaning may vary)</td> </tr> <tr> <td>ctyaln</td> <td>Name of administrative level 3 (e.g. county)</td> </tr> <tr> <td>citydescr</td> <td>City name</td> </tr> <tr> <td>cityaln</td> <td>Name of administrative level 4 (city, city part etc.)</td> </tr> <tr> <td>cityispart</td> <td>Flag indicating whether city is a city part</td> </tr> <tr> <td>cityptdescr</td> <td>City part name</td> </tr> <tr> <td>cityptaln</td> <td>Name of administrative level (city part)</td> </tr> <tr> <td>pcitydescr</td> <td>Parent city name</td> </tr> <tr> <td>pcityaln</td> <td>Name of administrative level (parent city)</td> </tr> <tr> <td>strdescr</td> <td>Street name</td> </tr> <tr> <td>hnddescr</td> <td>House number</td> </tr> <tr> <td>hnpost</td> <td>Post code</td> </tr> <tr> <td>hnruian</td> <td>RUIAN address code (for Czech addresses only)</td> </tr> <tr> <td>hnd</td> <td>House number part - descriptive number</td> </tr> <tr> <td>hno</td> <td>House number part - orientation number</td> </tr> <tr> <td>hnreg</td> <td>House number part - registration number</td> </tr> <tr> <td>hnrepl</td> <td>House number part - replacement number</td> </tr> <tr> <td>realsearchvalues</td> <td>Real values used for search</td> </tr> </table>	*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code	ctryisoa3	Country ISO 3166-1 alpha 3 code	ctryison	Country ISO 3166-1 numeric code	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)	ctrydescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrydescren	Full country name in English language	ctrydescren	Abbreviated country name in English language	stdescr	State/region etc. name (meaning may vary)	staln	Name of administrative level 2 (state, region, federal republic etc.)	ctydescr	County name etc. (meaning may vary)	ctyaln	Name of administrative level 3 (e.g. county)	citydescr	City name	cityaln	Name of administrative level 4 (city, city part etc.)	cityispart	Flag indicating whether city is a city part	cityptdescr	City part name	cityptaln	Name of administrative level (city part)	pcitydescr	Parent city name	pcityaln	Name of administrative level (parent city)	strdescr	Street name	hnddescr	House number	hnpost	Post code	hnruian	RUIAN address code (for Czech addresses only)	hnd	House number part - descriptive number	hno	House number part - orientation number	hnreg	House number part - registration number	hnrepl	House number part - replacement number	realsearchvalues	Real values used for search
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lvl	Result level																																																												
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ctryisoa3	Country ISO 3166-1 alpha 3 code																																																												
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stdescr	State/region etc. name (meaning may vary)																																																												
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ctyaln	Name of administrative level 3 (e.g. county)																																																												
citydescr	City name																																																												
cityaln	Name of administrative level 4 (city, city part etc.)																																																												
cityispart	Flag indicating whether city is a city part																																																												
cityptdescr	City part name																																																												
cityptaln	Name of administrative level (city part)																																																												
pcitydescr	Parent city name																																																												
pcityaln	Name of administrative level (parent city)																																																												
strdescr	Street name																																																												
hnddescr	House number																																																												
hnpost	Post code																																																												
hnruian	RUIAN address code (for Czech addresses only)																																																												
hnd	House number part - descriptive number																																																												
hno	House number part - orientation number																																																												
hnreg	House number part - registration number																																																												
hnrepl	House number part - replacement number																																																												
realsearchvalues	Real values used for search																																																												
nonlatout	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used																																																						
1	Allowed																																																												
2	Disabled																																																												
3	Allowed only if non-latin alfabet in input text is used																																																												
defcntry	optional; default country (if search result is different from default country, abbreviation of the particular																																																												



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	country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes												
alnlng	optional; language of administrative levels name Default value: CZE Allowed values: <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language						
CZE	Czech												
ENG	English												
DEF	Country's default language												
reqlvl	optional; list of levels (delimited by semicolon (;)) which cannot be skipped during search Default value: empty Allowed values: <table border="1"> <tr> <td>country</td> <td>Value in <i>country</i> parameter cannot be skipped</td> </tr> <tr> <td>state</td> <td>Value in <i>state</i> parameter cannot be skipped</td> </tr> <tr> <td>county</td> <td>Value in <i>county</i> parameter cannot be skipped</td> </tr> <tr> <td>city</td> <td>Value in <i>city</i> parameter cannot be skipped</td> </tr> <tr> <td>street</td> <td>Value in <i>street</i> parameter cannot be skipped</td> </tr> <tr> <td>house_no</td> <td>Value in <i>house_no</i> parameter cannot be skipped</td> </tr> </table> <p>Note: There is no need to specify lowest level in input parameter - service always consider this level as non-skippable.</p>	country	Value in <i>country</i> parameter cannot be skipped	state	Value in <i>state</i> parameter cannot be skipped	county	Value in <i>county</i> parameter cannot be skipped	city	Value in <i>city</i> parameter cannot be skipped	street	Value in <i>street</i> parameter cannot be skipped	house_no	Value in <i>house_no</i> parameter cannot be skipped
country	Value in <i>country</i> parameter cannot be skipped												
state	Value in <i>state</i> parameter cannot be skipped												
county	Value in <i>county</i> parameter cannot be skipped												
city	Value in <i>city</i> parameter cannot be skipped												
street	Value in <i>street</i> parameter cannot be skipped												
house_no	Value in <i>house_no</i> parameter cannot be skipped												
refpt	optional; reference geographic point used for sorting of first X found results by the distance from this point ascending Point is defined as a string using following format: [projection;]partA;partB[;partN...] where: <table border="1"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA partB</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified</td> </tr> </table> <p>Example: WGS-84;50;15</p>	projection	Optional projection name. Default value: WGS-84	partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified								
projection	Optional projection name. Default value: WGS-84												
partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified												
hnstr	optional; flag whether to search for house number in <i>street</i> parameter value or not Default value: 1 Allowed values: <table border="1"> <tr> <td>1</td> <td>Try to extract house number from <i>street</i> parameter value</td> </tr> <tr> <td>0</td> <td>Do not try to extract house number from <i>street</i> parameter value</td> </tr> </table>	1	Try to extract house number from <i>street</i> parameter value	0	Do not try to extract house number from <i>street</i> parameter value								
1	Try to extract house number from <i>street</i> parameter value												
0	Do not try to extract house number from <i>street</i> parameter value												
auser	optional; user name to access the service (if authorization is used)												
apass	optional; password to access the service (if authorization is used)												
reqid	optional; used to transfer any value from input to output of the service												
output	optional; output type Default value: xml Allowed values: <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table> <p>Notice: In case of passing unsupported value the service returns HTTP status 400</p>	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.	js	Output is JavaScript object								
xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.												
js	Output is JavaScript object												
callback	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called												

¹ At least one of these parameters must be filled



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6.2 HTTP GET - RESPONSE

request	list of input parameters																								
{																									
version	always given; interface version																								
cmd	always given; method name																								
reqid	given if <i>reqid</i> parameter is passed in; <i>reqid</i> parameter value																								
country	always given; <i>country</i> parameter value																								
state	always given; <i>state</i> parameter value																								
county	always given; <i>county</i> parameter value																								
city	always given; <i>city</i> parameter value																								
postcode	always given; <i>postcode</i> parameter value																								
street	always given; <i>street</i> parameter value																								
houseno	always given; <i>house_no</i> parameter value																								
pagingtype	always given; <i>pgt</i> parameter value																								
pagenumber	given if <i>pagingtype</i> =1; <i>pgn</i> parameter value																								
pagesize	given if <i>pagingtype</i> =1; <i>pgs</i> parameter value																								
from	given if <i>pagingtype</i> =[2, 3]; <i>from</i> parameter value																								
to	given if <i>pagingtype</i> =[2, 3]; <i>to</i> parameter value																								
offset	given if <i>pagingtype</i> =[2, 3]; <i>offset</i> parameter value																								
count	given if <i>pagingtype</i> =[2, 3]; <i>count</i> parameter value																								
requiredlevels	always given; <i>reqlvl</i> s parameter value																								
referencepoint	given if <i>refpt</i> parameter is passed in; <i>refpt</i> parameter value																								
}																									
response																									
{																									
error	always given; error code Possible values: <table border="1" data-bbox="635 1339 1426 1935"> <tr><td>0</td><td>Operation finished with no error</td></tr> <tr><td>-1</td><td>Invalid argument (parameter value, missing parameter etc.)</td></tr> <tr><td>-2</td><td>Authorization error</td></tr> <tr><td>-3</td><td>Unsupported method</td></tr> <tr><td>-10</td><td>Internal error</td></tr> <tr><td>-101</td><td>No result found</td></tr> <tr><td>-102</td><td>Search was interrupted</td></tr> <tr><td>-103</td><td>No more results found (occurs when parameter <i>pgn</i>>1 or parameter <i>from</i>>1 or parameter <i>offset</i>> 0 and no more search results were found)</td></tr> <tr><td>-201</td><td>No match for an item that is required</td></tr> <tr><td>-202</td><td>Too many results Solution: Specify more exact text</td></tr> <tr><td>-203</td><td>No match found for defined contractual restrictions (internal system error)</td></tr> <tr><td>-204</td><td>No match between defined contractual and user restrictions Solution: Enter only user conditions that are allowed by contract conditions</td></tr> </table>	0	Operation finished with no error	-1	Invalid argument (parameter value, missing parameter etc.)	-2	Authorization error	-3	Unsupported method	-10	Internal error	-101	No result found	-102	Search was interrupted	-103	No more results found (occurs when parameter <i>pgn</i> >1 or parameter <i>from</i> >1 or parameter <i>offset</i> > 0 and no more search results were found)	-201	No match for an item that is required	-202	Too many results Solution: Specify more exact text	-203	No match found for defined contractual restrictions (internal system error)	-204	No match between defined contractual and user restrictions Solution: Enter only user conditions that are allowed by contract conditions
0	Operation finished with no error																								
-1	Invalid argument (parameter value, missing parameter etc.)																								
-2	Authorization error																								
-3	Unsupported method																								
-10	Internal error																								
-101	No result found																								
-102	Search was interrupted																								
-103	No more results found (occurs when parameter <i>pgn</i> >1 or parameter <i>from</i> >1 or parameter <i>offset</i> > 0 and no more search results were found)																								
-201	No match for an item that is required																								
-202	Too many results Solution: Specify more exact text																								
-203	No match found for defined contractual restrictions (internal system error)																								
-204	No match between defined contractual and user restrictions Solution: Enter only user conditions that are allowed by contract conditions																								
errormessage	always given; error message																								
count	given if <i>error</i> =0; number of results in field <i>results</i>																								

prevavail	given if <i>error</i> =0; availability of previous page Possible values: <table border="1"> <tr> <td>0</td> <td>Previous page is not available</td> </tr> <tr> <td>1</td> <td>Previous page is available</td> </tr> </table>	0	Previous page is not available	1	Previous page is available								
0	Previous page is not available												
1	Previous page is available												
nextavail	given if <i>error</i> =0; availability of the next page Possible values: <table border="1"> <tr> <td>0</td> <td>Next page is not available</td> </tr> <tr> <td>1</td> <td>Next page is available</td> </tr> </table>	0	Next page is not available	1	Next page is available								
0	Next page is not available												
1	Next page is available												
results	given if <i>error</i> =0; results array												
[{													
id	always given; record ID												
descr	always given; description												
descrex	always given; extended description												
capabilities	always given; result properties (see structure DT_CAPABILITIES)												
pos	given if parameter <i>outpos</i> =[1, 3]; coordinates (see structure DT_POS)												
strpos	given if parameter <i>outpos</i> =[2, 3]; coordinates in text form												
boundingbox	given if <i>capabilities</i> contains item <i>boundingbox</i> and parameter <i>outpos</i> =[1, 3]; coordinates of bounding box (see structure DT_BOUNDINGBOX)												
strboundingbox	given if <i>capabilities</i> contains item <i>boundingbox</i> and parameter <i>outpos</i> =[2, 3]; coordinates of bounding box in text form (see structure DT_STRBOUNDINGBOX)												
level	given if parameter <i>resfields</i> contains value <i>lvl</i> ; result level Possible values: <table border="1"> <tr> <td>country</td> <td>administrative level 1 (country)</td> </tr> <tr> <td>state</td> <td>administrative level 2 (e.g. state, region, federal republic)</td> </tr> <tr> <td>county</td> <td>administrative level 3 (e.g. county)</td> </tr> <tr> <td>city</td> <td>city, city part</td> </tr> <tr> <td>street</td> <td>street</td> </tr> <tr> <td>house_no</td> <td>house number</td> </tr> </table>	country	administrative level 1 (country)	state	administrative level 2 (e.g. state, region, federal republic)	county	administrative level 3 (e.g. county)	city	city, city part	street	street	house_no	house number
country	administrative level 1 (country)												
state	administrative level 2 (e.g. state, region, federal republic)												
county	administrative level 3 (e.g. county)												
city	city, city part												
street	street												
house_no	house number												
countryisoa2	given if parameter <i>resfields</i> contains value <i>ctryisoa2</i> ; country ISO 3166-1 alpha 2 code												
countryisoa3	given if parameter <i>resfields</i> contains value <i>ctryisoa3</i> ; country ISO 3166-1 alpha 3 code												
countryison	given if parameter <i>resfields</i> contains value <i>ctryison</i> ; country ISO 3166-1 numeric code												
countryivrc	given if parameter <i>resfields</i> contains value <i>ctryivrc</i> ; country code used for registration plates of vehicles												
countryshortdescrcz	given if parameter <i>resfields</i> contains value <i>ctrydescrcz</i> ; abbreviated country name in czech language												
countrydescrcz	given if parameter <i>resfields</i> contains value <i>ctrydescrcz</i> ; full country name in czech language												
countryshortdescren	given if parameter <i>resfields</i> contains value <i>ctrydescren</i> ; abbreviated country name in english language												
countrydescren	given if parameter <i>resfields</i> contains value <i>ctrydescren</i> ; full country name in english language												
statedescr	given if parameter <i>resfields</i> contains value <i>stdescr</i> and results are from												

stateadminlevelname	level "state" and lower; name of region/area etc. (meaning may vary) given if parameter <i>resfields</i> contains value <i>staln</i> and results are from level „state“ and lower; name of administrative level 2 (state, region, federal republic etc.)
countydescr	given if parameter <i>resfields</i> contains value <i>ctydescr</i> and results are from level „county“ and lower; name of county etc. (meaning may vary)
countyadminlevelname	given if parameter <i>resfields</i> contains value <i>ctyaln</i> and results are from level „county“ and lower; name of administrative level 3 (e.g. county)
citydescr	given if parameter <i>resfields</i> contains value <i>citydescr</i> and results are from level „city“ and lower; city name
cityadminlevelname	given if parameter <i>resfields</i> contains value <i>cityaln</i> and results are from level „city“ and lower; name of administrative level 4 (city, city part etc.)
cityispart	given if parameter <i>resfields</i> contains value <i>cityispart</i> and results are from level „city“ and lower; a flag indicating whether city is a city part either
parentcitydescr	given if parameter <i>resfields</i> contains value <i>pcitydescr</i> and results are from level „city“ and lower; parent city name Note: If the field <i>cityispart</i> =0 or parameter <i>citynorm</i> =1 content of this field is always empty
parentcityadminlevelname	given if parameter <i>resfields</i> contains value <i>pcityaln</i> and results are from level „city“ and lower; name of administrative level (parent city) Note: If the field <i>cityispart</i> =0 or parameter <i>citynorm</i> =1 content of this field is always empty
citypartdescr	given if parameter <i>resfields</i> contains value <i>cityptdescr</i> and results are from level „city“ and lower; city part name Note: If parameter <i>citynorm</i> =0 content of this field is always empty
citypartadminlevelname	given if parameter <i>resfields</i> contains value <i>cityptaln</i> and results are from level „city“ and lower; name of administrative level (city part) Note: If parameter <i>citynorm</i> =0 content of this field is always empty
streetdescr	given if parameter <i>resfields</i> contains value <i>strdescr</i> and results are from level „street“ and lower; street name
housenode descr	given if parameter <i>resfields</i> contains value <i>hndescr</i> and results are from level „house_no“ and lower; house number
housenopostcode	given if parameter <i>resfields</i> contains value <i>hnpost</i> and results are from level „house_no“ and lower; post code
housenoruiian	given if parameter <i>resfields</i> contains value <i>hnruian</i> and results are from level „house_no“ and lower; RUIAN address code (for Czech addresses only)
housenodescriptive	given if parameter <i>resfields</i> contains value <i>hnd</i> and results are from level „house_no“ and lower; house number part - descriptive number
housenoorientation	given if parameter <i>resfields</i> contains value <i>hno</i> and results are from level „house_no“ and lower; house number part - orientation number
housenoregistration	given if parameter <i>resfields</i> contains value <i>hnreg</i> and results are from level „house_no“ and lower; house number part - registration number
housenoreplacement	given if parameter <i>resfields</i> contains value <i>hnrepl</i> and results are from level „house_no“ and lower; house number part - replacement number
matchpercentage	always given; match percentage between search values and result item
referencepointdistance	given if parameter <i>refpt</i> is passed in; distance between reference point



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	and result item (in metres)
}, ...]	
boundingbox	given if parameter <i>outpos</i> =[1, 3]; all results bounding box coordinates (see structure <i>DT_BOUNDINGBOX</i>)
strboundingbox	given if parameter <i>outpos</i> =[2, 3]; all results bounding box string coordinates (see structure <i>DT_STRBOUNDINGBOX</i>)
precision	given in parameter <i>outpos</i> =[1, 2, 3]; diagonal of all results bounding box in meters
realsearchvalues	given if parameter <i>resfields</i> contains value <i>realsearchvalues</i> ; real search values (see structure <i>DT_REALSEARCHVALUES</i>)
}	

6.3 HTTP POST FORM - PARAMETERS

see [HTTP GET - parameters](#)

6.4 HTTP POST FORM - RESPONSE

see [HTTP GET - response](#)

6.5 HTTP POST XML - PARAMETERS

6.5.1 URL PARAMETERS

ver	mandatory; interface version Fixed value: 4
cmd	mandatory; method name Fixed value: „search_comp“

6.5.2 REQUEST BODY

<options>	
<country>	optional ¹ ; search text for administrative level 1 (country)
<state>	optional ¹ ; search text for administrative level 1 (state, region, federal republic etc.)
<county>	optional ¹ ; search text for administrative level 1 (county)
<city>	optional ¹ ; search text for city and city part
<postcode>	optional ¹ ; search text for post code
<street>	optional ¹ ; search text for street
<house_no>	optional ¹ ; search text for house number
<pgt>	optional; paging type Default value: autodetection by existence of parameters <ol style="list-style-type: none"> 1. If given at least one of parameters <i>pgn</i> - <i>pgs</i>, value 1 is used 2. If given at least one of parameters <i>from</i> - <i>to</i>, value 2 is used 3. In all other cases value 3 is used

	<p>Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i></td> </tr> <tr> <td>2</td> <td>paging by records; for further setting use a pair of parameters <i>from - to</i> or <i>offset - count</i>. Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</td> </tr> <tr> <td>3</td> <td>paging by records; for further setting use a pair of parameters <i>from - to</i> or <i>offset - count</i>. Unlike previous type this returns a flag of next page availability.</td> </tr> </table>	1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>	2	paging by records; for further setting use a pair of parameters <i>from - to</i> or <i>offset - count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!	3	paging by records; for further setting use a pair of parameters <i>from - to</i> or <i>offset - count</i> . Unlike previous type this returns a flag of next page availability.										
1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>																
2	paging by records; for further setting use a pair of parameters <i>from - to</i> or <i>offset - count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!																
3	paging by records; for further setting use a pair of parameters <i>from - to</i> or <i>offset - count</i> . Unlike previous type this returns a flag of next page availability.																
<from>	optional; first required record (records are numbered from 1) Default value: 1																
<to>	optional; last required record (records are numbered from 1) Default value: 10																
<pgs>	optional; page size (number of records per page) Default value: 10																
<pgn>	optional; number of the required page (pages are numbered from 1) Default value: 1																
<offset>	optional; number of skipped records Default value: 0																
<count>	optional; number of required records Default value: 10																
<outproj>	optional; projection of output coordinates Default value: WGS-84																
<outpos>	optional; required coordinate format definition Default value: 1 Allowed values:																
	<table border="1"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form								
0	Output contains no coordinates																
1	Output coordinates in structure																
2	Output coordinates in text form																
3	Output coordinates in both - structure and text - form																
<acountry>	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes																
<citynorm>	optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values:																
	<table border="1"> <tr> <td>0</td> <td>Off</td> </tr> <tr> <td>1</td> <td>On</td> </tr> </table>	0	Off	1	On												
0	Off																
1	On																
<resfields>	optional; semicolon-separated list of required special fields in output Allowed values:																
	<table border="1"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>lvl</td> <td>Result level</td> </tr> <tr> <td>ctryisoa2</td> <td>Country ISO 3166-1 alpha 2 code</td> </tr> <tr> <td>ctryisoa3</td> <td>Country ISO 3166-1 alpha 3 code</td> </tr> <tr> <td>ctryison</td> <td>Country ISO 3166-1 numeric code</td> </tr> <tr> <td>ctryivrc</td> <td>Country code used for vehicle licence plates (international vehicle registration code)</td> </tr> <tr> <td>ctrydescrcz</td> <td>Full country name in Czech language</td> </tr> <tr> <td>ctrydescrcz</td> <td>Abbreviated country name in Czech language</td> </tr> </table>	*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code	ctryisoa3	Country ISO 3166-1 alpha 3 code	ctryison	Country ISO 3166-1 numeric code	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)	ctrydescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language
*	All of the following values																
lvl	Result level																
ctryisoa2	Country ISO 3166-1 alpha 2 code																
ctryisoa3	Country ISO 3166-1 alpha 3 code																
ctryison	Country ISO 3166-1 numeric code																
ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)																
ctrydescrcz	Full country name in Czech language																
ctrydescrcz	Abbreviated country name in Czech language																

	ctrysdscrlen	Full country name in English language												
	ctrydescrlen	Abbreviated country name in English language												
	stdescr	State/region etc. name (meaning may vary)												
	staln	Name of administrative level 2 (state, region, federal republic etc.)												
	ctydescr	County name etc. (meaning may vary)												
	ctyaln	Name of administrative level 3 (e.g. county)												
	citydescr	City name												
	cityaln	Name of administrative level 4 (city, city part etc.)												
	cityispart	Flag indicating whether city is a city part												
	cityptdescr	City part name												
	cityptaln	Name of administrative level (city part)												
	pcitydescr	Parent city name												
	pcityaln	Name of administrative level (parent city)												
	strdescr	Street name												
	hndscr	House number												
	hnpost	Post code												
	hnruian	RUIAN address code (for Czech addresses only)												
	hnd	House number part - descriptive number												
	hno	House number part - orientation number												
	hnreg	House number part - registration number												
	hnrepl	House number part - replacement number												
	realsearchvalues	Real values used for search												
<nonlatout>	<p>optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>		1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used						
1	Allowed													
2	Disabled													
3	Allowed only if non-latin alfabet in input text is used													
<defcntry>	<p>optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes</p>													
<alnlang>	<p>optional; language of administrative levels name Default value: CZE Allowed values:</p> <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>		CZE	Czech	ENG	English	DEF	Country's default language						
CZE	Czech													
ENG	English													
DEF	Country's default language													
<reqlvlsl>	<p>optional; list of levels (delimited by semicolon (;)) which cannot be skipped during search Default value: empty Allowed values:</p> <table border="1"> <tr> <td>country</td> <td>Value in <i>country</i> parameter cannot be skipped</td> </tr> <tr> <td>state</td> <td>Value in <i>state</i> parameter cannot be skipped</td> </tr> <tr> <td>county</td> <td>Value in <i>county</i> parameter cannot be skipped</td> </tr> <tr> <td>city</td> <td>Value in <i>city</i> parameter cannot be skipped</td> </tr> <tr> <td>street</td> <td>Value in <i>street</i> parameter cannot be skipped</td> </tr> <tr> <td>house_no</td> <td>Value in <i>house_no</i> parameter cannot be skipped</td> </tr> </table>		country	Value in <i>country</i> parameter cannot be skipped	state	Value in <i>state</i> parameter cannot be skipped	county	Value in <i>county</i> parameter cannot be skipped	city	Value in <i>city</i> parameter cannot be skipped	street	Value in <i>street</i> parameter cannot be skipped	house_no	Value in <i>house_no</i> parameter cannot be skipped
country	Value in <i>country</i> parameter cannot be skipped													
state	Value in <i>state</i> parameter cannot be skipped													
county	Value in <i>county</i> parameter cannot be skipped													
city	Value in <i>city</i> parameter cannot be skipped													
street	Value in <i>street</i> parameter cannot be skipped													
house_no	Value in <i>house_no</i> parameter cannot be skipped													



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	Note: There is no need to specify lowest level in input parameter - service always consider this level as non-skipable.				
<refpt>	optional; reference geographic point used for sorting of first X found results by the distance from this point ascending Point is defined as a string using following format: [projection;]partA;partB[;partN...] where: <table border="1"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA partB</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified</td> </tr> </table>	projection	Optional projection name. Default value: WGS-84	partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified
projection	Optional projection name. Default value: WGS-84				
partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified				
	Example: WGS-84;50;15				
<hnstr>	optional; flag whether to search for house number in <i>street</i> parameter value or not Default value: 1 Allowed values: <table border="1"> <tr> <td>1</td> <td>Try to extract house number from <i>street</i> parameter value</td> </tr> <tr> <td>0</td> <td>Do not try to extract house number from <i>street</i> parameter value</td> </tr> </table>	1	Try to extract house number from <i>street</i> parameter value	0	Do not try to extract house number from <i>street</i> parameter value
1	Try to extract house number from <i>street</i> parameter value				
0	Do not try to extract house number from <i>street</i> parameter value				
<auser>	optional; user name to access the service (if authorization is used)				
<apass>	optional; password to access the service (if authorization is used)				
<reqid>	optional; used to transfer any value from input to output of the service				
<output>	optional; output type Default value: xml Allowed values: <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table>	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.	js	Output is JavaScript object
xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.				
js	Output is JavaScript object				
	Notice: In case of passing unsupported value the service returns HTTP status 400				
<callback>	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called				
</options>					

¹ At least one of these parameters must be filled

6.6 HTTP POST XML - RESPONSE

see [HTTP GET - response](#)

6.7 SOAP - PARAMETERS

SOAP interface Method: SearchComp

Country	optional ¹ ; search text for administrative level 1 (country)
State	optional ¹ ; search text for administrative level 1 (state, region, federal republic etc.)
County	optional ¹ ; search text for administrative level 1 (county)
City	optional ¹ ; search text for city and city part
PostCode	optional ¹ ; search text for post code
Street	optional ¹ ; search text for street



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HouseNo	optional ¹ ; search text for house number								
PagingType	<p>optional; paging type Default value: autodetection by existence of parameters</p> <ol style="list-style-type: none"> If given at least one of parameters <i>PageNumber</i> - <i>PageSize</i>, value 1 is used If given at least one of parameters <i>RecordFrom</i> - <i>RecordTo</i>, value 2 is used In all other cases value 3 is used <p>Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters <i>PageSize</i> and <i>PageNumber</i></td> </tr> <tr> <td>2</td> <td> paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>. Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!! </td> </tr> <tr> <td>3</td> <td> paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>. Unlike previous type this returns a flag of next page availability. </td> </tr> </table>	1	paging by pages; for further setting use parameters <i>PageSize</i> and <i>PageNumber</i>	2	paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!	3	paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i> . Unlike previous type this returns a flag of next page availability.		
1	paging by pages; for further setting use parameters <i>PageSize</i> and <i>PageNumber</i>								
2	paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!								
3	paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i> . Unlike previous type this returns a flag of next page availability.								
RecordFrom	optional; first required record (records are numbered from 1) Default value: 1								
RecordTo	optional; last required record (records are numbered from 1) Default value: 10								
PageSize	optional; page size (number of records per page) Default value: 10								
PageNumber	optional; number of the required page (pages are numbered from 1) Default value: 1								
Offset	optional; number of skipped records Default value: 0								
Count	optional; number of required records Default value: 10								
OutputProjection	optional; projection of output coordinates Default value: WGS-84								
OutputPosition	<p>optional; required coordinate format definition Default value: 1</p> <p>Allowed values:</p> <table border="1"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form
0	Output contains no coordinates								
1	Output coordinates in structure								
2	Output coordinates in text form								
3	Output coordinates in both - structure and text - form								
AllowedCountries	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes								
CityNormalization	<p>optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0</p> <p>Allowed values:</p> <table border="1"> <tr> <td>0</td> <td>Off</td> </tr> <tr> <td>1</td> <td>On</td> </tr> </table>	0	Off	1	On				
0	Off								
1	On								
ResultFields	<p>optional; semicolon-separated list of required special fields in output Allowed values:</p> <table border="1"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>lvl</td> <td>Result level</td> </tr> <tr> <td>ctryisoa2</td> <td>Country ISO 3166-1 alpha 2 code</td> </tr> </table>	*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code		
*	All of the following values								
lvl	Result level								
ctryisoa2	Country ISO 3166-1 alpha 2 code								

	ctryisoa3	Country ISO 3166-1 alpha 3 code						
	ctryison	Country ISO 3166-1 numeric code						
	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)						
	ctrydescrz	Full country name in Czech language						
	ctrydescrcz	Abbreviated country name in Czech language						
	ctrydescren	Full country name in English language						
	ctrydescren	Abbreviated country name in English language						
	stdescr	State/region etc. name (meaning may vary)						
	staln	Name of administrative level 2 (state, region, federal republic etc.)						
	ctydescr	County name etc. (meaning may vary)						
	ctyaln	Name of administrative level 3 (e.g. county)						
	citydescr	City name						
	cityaln	Name of administrative level 4 (city, city part etc.)						
	cityispart	Flag indicating whether city is a city part						
	cityptdescr	City part name						
	cityptaln	Name of administrative level (city part)						
	pcitydescr	Parent city name						
	pcityaln	Name of administrative level (parent city)						
	strdescr	Street name						
	hnddescr	House number						
	hnpost	Post code						
	hnruian	RUIAN address code (for Czech addresses only)						
	hnd	House number part - descriptive number						
	hno	House number part - orientation number						
	hnreg	House number part - registration number						
	hnrepl	House number part - replacement number						
	realsearchvalues	Real values used for search						
AllowNonLatinOutput	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1" data-bbox="486 1456 1428 1556"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>		1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed							
2	Disabled							
3	Allowed only if non-latin alfabet in input text is used							
DefaultCountry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes							
AdminLevelNameLang	optional; language of administrative levels name Default value: CZE Allowed values: <table border="1" data-bbox="486 1792 1428 1892"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>		CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech							
ENG	English							
DEF	Country's default language							
RequiredLevels	optional; list of levels (delimited by semicolon (;)) which cannot be skipped during search Default value: empty							



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	<p>Allowed values:</p> <table border="1"> <tr> <td>country</td> <td>Value in <i>country</i> parameter cannot be skipped</td> </tr> <tr> <td>state</td> <td>Value in <i>state</i> parameter cannot be skipped</td> </tr> <tr> <td>county</td> <td>Value in <i>county</i> parameter cannot be skipped</td> </tr> <tr> <td>city</td> <td>Value in <i>city</i> parameter cannot be skipped</td> </tr> <tr> <td>street</td> <td>Value in <i>street</i> parameter cannot be skipped</td> </tr> <tr> <td>house_no</td> <td>Value in <i>house_no</i> parameter cannot be skipped</td> </tr> </table> <p>Note: There is no need to specify lowest level in input parameter - service always consider this level as non-skippable.</p>	country	Value in <i>country</i> parameter cannot be skipped	state	Value in <i>state</i> parameter cannot be skipped	county	Value in <i>county</i> parameter cannot be skipped	city	Value in <i>city</i> parameter cannot be skipped	street	Value in <i>street</i> parameter cannot be skipped	house_no	Value in <i>house_no</i> parameter cannot be skipped
country	Value in <i>country</i> parameter cannot be skipped												
state	Value in <i>state</i> parameter cannot be skipped												
county	Value in <i>county</i> parameter cannot be skipped												
city	Value in <i>city</i> parameter cannot be skipped												
street	Value in <i>street</i> parameter cannot be skipped												
house_no	Value in <i>house_no</i> parameter cannot be skipped												
ReferencePoint	<p>optional; reference geographic point used for sorting of first X found results by the distance from this point ascending Point is defined as a string using following format: [projection;]partA;partB[;partN...] where:</p> <table border="1"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA partB</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified</td> </tr> </table> <p>Example: WGS-84;50;15</p>	projection	Optional projection name. Default value: WGS-84	partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified								
projection	Optional projection name. Default value: WGS-84												
partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified												
AllowHouseNumberInStreet	<p>optional; flag whether to search for house number in <i>street</i> parameter value or not Default value: 1 Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>Try to extract house number from <i>street</i> parameter value</td> </tr> <tr> <td>0</td> <td>Do not try to extract house number from <i>street</i> parameter value</td> </tr> </table>	1	Try to extract house number from <i>street</i> parameter value	0	Do not try to extract house number from <i>street</i> parameter value								
1	Try to extract house number from <i>street</i> parameter value												
0	Do not try to extract house number from <i>street</i> parameter value												
User	optional; user name to access the service (if authorization is used)												
Password	optional; password to access the service (if authorization is used)												
ReqID	optional; used to transfer any value from input to output of the service												

¹ At least one of these parameters must be filled

6.8 SOAP - RESPONSE

Request	list of input parameters
{	
Version	always given; interface version
ReqID	given if <i>ReqID</i> parameter is passed in; <i>ReqID</i> parameter value
Country	always given; <i>Country</i> parameter value
State	always given; <i>State</i> parameter value
County	always given; <i>County</i> parameter value
City	always given; <i>City</i> parameter value
PostCode	always given; <i>PostCode</i> parameter value
Street	always given; <i>Street</i> parameter value
HouseNo	always given; <i>HouseNo</i> parameter value
PagingType	always given; <i>PagingType</i> parameter value
PageNumber	given if <i>PagingType</i> =1; <i>PageNumber</i> parameter value
PageSize	given if <i>PagingType</i> =1; <i>PageSize</i> parameter value
From	given if <i>PagingType</i> =[2, 3]; <i>RecordFrom</i> parameter value

To	given if <i>PagingType</i> =[2, 3]; <i>RecordTo</i> parameter value																								
Offset	given if <i>PagingType</i> =[2, 3]; <i>Offset</i> parameter value																								
Count	given if <i>PagingType</i> =[2, 3]; <i>Count</i> parameter value																								
RequiredLevels	always given; <i>RequiredLevels</i> parameter value																								
ReferencePoint	given if <i>ReferencePoint</i> parameter is passed in; <i>ReferencePoint</i> parameter value																								
}																									
Response																									
{																									
Error	<p>always given; error code</p> <p>Possible values:</p> <table border="1"> <tr> <td>0</td> <td>Operation finished with no error</td> </tr> <tr> <td>-1</td> <td>Invalid argument (parameter value, missing parameter etc.)</td> </tr> <tr> <td>-2</td> <td>Authorization error</td> </tr> <tr> <td>-3</td> <td>Unsupported method</td> </tr> <tr> <td>-10</td> <td>Internal error</td> </tr> <tr> <td>-101</td> <td>No result found</td> </tr> <tr> <td>-102</td> <td>Search was interrupted</td> </tr> <tr> <td>-103</td> <td>No more results found (occurs when parameter <i>PageNumber</i>>1 or parameter <i>RecordFrom</i>>1 or parameter <i>Offset</i>> 0 and no more search results were found)</td> </tr> <tr> <td>-201</td> <td>No match for an item that is required</td> </tr> <tr> <td>-202</td> <td>Too many results Solution: Specify more exact text</td> </tr> <tr> <td>-203</td> <td>No match found for defined contractual restrictions (internal system error)</td> </tr> <tr> <td>-204</td> <td>No match between defined contractual and user restrictions Solution: Enter only user conditions that are allowed by contract conditions</td> </tr> </table>	0	Operation finished with no error	-1	Invalid argument (parameter value, missing parameter etc.)	-2	Authorization error	-3	Unsupported method	-10	Internal error	-101	No result found	-102	Search was interrupted	-103	No more results found (occurs when parameter <i>PageNumber</i> >1 or parameter <i>RecordFrom</i> >1 or parameter <i>Offset</i> > 0 and no more search results were found)	-201	No match for an item that is required	-202	Too many results Solution: Specify more exact text	-203	No match found for defined contractual restrictions (internal system error)	-204	No match between defined contractual and user restrictions Solution: Enter only user conditions that are allowed by contract conditions
0	Operation finished with no error																								
-1	Invalid argument (parameter value, missing parameter etc.)																								
-2	Authorization error																								
-3	Unsupported method																								
-10	Internal error																								
-101	No result found																								
-102	Search was interrupted																								
-103	No more results found (occurs when parameter <i>PageNumber</i> >1 or parameter <i>RecordFrom</i> >1 or parameter <i>Offset</i> > 0 and no more search results were found)																								
-201	No match for an item that is required																								
-202	Too many results Solution: Specify more exact text																								
-203	No match found for defined contractual restrictions (internal system error)																								
-204	No match between defined contractual and user restrictions Solution: Enter only user conditions that are allowed by contract conditions																								
ErrorMessage	always given; error message																								
Count	given if <i>Error</i> =0; number of results in field <i>Results</i>																								
PrevAvail	<p>given if <i>Error</i>=0; availability of previous page</p> <p>Possible values:</p> <table border="1"> <tr> <td>0</td> <td>Previous page is not available</td> </tr> <tr> <td>1</td> <td>Previous page is available</td> </tr> </table>	0	Previous page is not available	1	Previous page is available																				
0	Previous page is not available																								
1	Previous page is available																								
NextAvail	<p>given if <i>Error</i>=0; availability of the next page</p> <p>Possible values:</p> <table border="1"> <tr> <td>0</td> <td>Next page is not available</td> </tr> <tr> <td>1</td> <td>Next page is available</td> </tr> </table>	0	Next page is not available	1	Next page is available																				
0	Next page is not available																								
1	Next page is available																								
Results	given if <i>Error</i> =0; results array																								
[{																									
ID	always given; record ID																								
Descr	always given; description																								
DescrEx	always given; extended description																								
Capabilities	always given; result properties (see structure <i>DT_SOAP_CAPABILITIES</i>)																								
Pos	given if parameter <i>OutputPosition</i> =[1, 3]; coordinates (see structure <i>DT_SOAP_POS</i>)																								
StrPos	given if parameter <i>OutputPosition</i> =[2, 3]; coordinates in text form																								



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BoundingBox	given if <i>Capabilities</i> contains item <i>BoundingBox</i> and parameter <i>OutputPosition</i> =[1, 3]; coordinates of bounding box (see structure <i>DT_SOAP_BOUNDBINGBOX</i>)												
StrBoundingBox	given if <i>Capabilities</i> contains item <i>BoundingBox</i> and parameter <i>OutputPosition</i> =[2, 3]; coordinates of bounding box in text form (see structure <i>DT_SOAP_STRBOUNDBINGBOX</i>)												
Level	<p>given if parameter <i>ResultFields</i> contains value <i>lvl</i>; result level</p> <p>Possible values:</p> <table border="1"> <tr> <td>country</td> <td>administrative level 1 (country)</td> </tr> <tr> <td>state</td> <td>administrative level 2 (e.g. state, region, federal republic)</td> </tr> <tr> <td>county</td> <td>administrative level 3 (e.g. county)</td> </tr> <tr> <td>city</td> <td>city, city part</td> </tr> <tr> <td>street</td> <td>street</td> </tr> <tr> <td>house_no</td> <td>house number</td> </tr> </table>	country	administrative level 1 (country)	state	administrative level 2 (e.g. state, region, federal republic)	county	administrative level 3 (e.g. county)	city	city, city part	street	street	house_no	house number
country	administrative level 1 (country)												
state	administrative level 2 (e.g. state, region, federal republic)												
county	administrative level 3 (e.g. county)												
city	city, city part												
street	street												
house_no	house number												
CountryISOA2	given if parameter <i>ResultFields</i> contains value <i>ctryisoa2</i> ; country ISO 3166-1 alpha 2 code												
CountryISOA3	given if parameter <i>ResultFields</i> contains value <i>ctryisoa3</i> ; country ISO 3166-1 alpha 3 code												
CountryISON	given if parameter <i>ResultFields</i> contains value <i>ctryison</i> ; country ISO 3166-1 numeric code												
CountryIVRC	given if parameter <i>ResultFields</i> contains value <i>ctryivrc</i> ; country code used for registration plates of vehicles												
CountryShortDescrCZ	given if parameter <i>ResultFields</i> contains value <i>ctrydescrcz</i> ; abbreviated country name in czech language												
CountryDescrCZ	given if parameter <i>ResultFields</i> contains value <i>ctrydescrcz</i> ; full country name in czech language												
CountryShortDescrEN	given if parameter <i>ResultFields</i> contains value <i>ctrydescren</i> ; abbreviated country name in english language												
CountryDescrEN	given if parameter <i>ResultFields</i> contains value <i>ctrydescren</i> ; full country name in english language												
StateDescr	given if parameter <i>ResultFields</i> contains value <i>stdescr</i> and results are from level "state" and lower; name of region/area etc. (meaning may vary)												
StateAdminLevelName	given if parameter <i>ResultFields</i> contains value <i>staln</i> and results are from level „state“ and lower; name of administrative level 2 (state, region, federal republic etc.)												
CountyDescr	given if parameter <i>ResultFields</i> contains value <i>ctydescr</i> and results are from level „county“ and lower; name of county etc. (meaning may vary)												
CountyAdminLevelName	given if parameter <i>ResultFields</i> contains value <i>ctyaln</i> and results are from level „county“ and lower; name of administrative level 3 (e.g. county)												
CityDescr	given if parameter <i>ResultFields</i> contains value <i>citydescr</i> and results are from level „city“ and lower; city name												
CityAdminLevelName	given if parameter <i>ResultFields</i> contains value <i>cityaln</i> and results are from level „city“ and lower; name of administrative level 4 (city, city part etc.)												
CityIsPart	given if parameter <i>ResultFields</i> contains value <i>cityispart</i> and results are from level „city“ and lower; a flag indicating whether city is a city part												



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	either
ParentCityDescr	given if parameter <i>ResultFields</i> contains value <i>pcitydescr</i> and results are from level „city“ and lower; parent city name Note: If the field <i>CityIsPart</i> =0 or parameter <i>CityNormalization</i> =1 content of this field is always empty
ParentCityAdminLevelName	given if parameter <i>ResultFields</i> contains value <i>pcityaln</i> and results are from level „city“ and lower; name of administrative level (parent city) Note: If the field <i>CityIsPart</i> =0 or parameter <i>CityNormalization</i> =1 content of this field is always empty
CityPartDescr	given if parameter <i>ResultFields</i> contains value <i>cityptdescr</i> and results are from level „city“ and lower; city part name Note: If parameter <i>CityNormalization</i> =0 content of this field is always empty
CityPartAdminLevelName	given if parameter <i>ResultFields</i> contains value <i>cityptaln</i> and results are from level „city“ and lower; name of administrative level (city part) Note: If parameter <i>CityNormalization</i> =0 content of this field is always empty
StreetDescr	given if parameter <i>ResultFields</i> contains value <i>strdescr</i> and results are from level „street“ and lower; street name
HouseNoDescr	given if parameter <i>ResultFields</i> contains value <i>hnddescr</i> and results are from level „house_no“ and lower; house number
HouseNoPostCode	given if parameter <i>ResultFields</i> contains value <i>hnpost</i> and results are from level „house_no“ and lower; post code
HouseNoRUIAN	given if parameter <i>ResultFields</i> contains value <i>hnruian</i> and results are from level „house_no“ and lower; RUIAN address code (for Czech addresses only)
HouseNoDescriptive	given if parameter <i>ResultFields</i> contains value <i>hnd</i> and results are from level „house_no“ and lower; house number part - descriptive number
HouseNoOrientation	given if parameter <i>ResultFields</i> contains value <i>hno</i> and results are from level „house_no“ and lower; house number part - orientation number
HouseNoRegistration	given if parameter <i>ResultFields</i> contains value <i>hnreg</i> and results are from level „house_no“ and lower; house number part - registration number
HouseNoReplacement	given if parameter <i>ResultFields</i> contains value <i>hnrepl</i> and results are from level „house_no“ and lower; house number part - replacement number
MatchPercentage	always given; match percentage between search values and result item
ReferencePointDistance	given if parameter <i>ReferencePoint</i> is passed in; distance between reference point and result item (in metres)
}, ...]	
BoundingBox	given if parameter <i>OutputPosition</i> =[1, 3]; all results bounding box coordinates (see structure <i>DT_SOAP_BOUNDBOX</i>)
StrBoundingBox	given if parameter <i>OutputPosition</i> =[2, 3]; all results bounding box string coordinates (see structure <i>DT_SOAP_STRBOUNDBOX</i>)
Precision	given in parameter <i>OutputPosition</i> =[1, 2, 3]; diagonal of all results bounding box in meters
RealSearchValues	given if parameter <i>ResultFields</i> contains value <i>realsearchvalues</i> ; real search values (see structure <i>DT_SOAP_REALSEARCHVALUES</i>)
}	

6.9 EXAMPLES

6.9.1 HTTP GET

Request:

http://services.position.cz/search/?cmd=search_comp&ver=4&country=CZE&city=liberec&street=neklanova&house_no=800&resfields=*

Response:

```
<?xml version="1.0" encoding="UTF-8"?>
<searchresults>
  <request>
    <version>4</version>
    <cmd>search_comp</cmd>
    <pagingtype>3</pagingtype>
    <offset>0</offset>
    <count>10</count>
    <country>CZE</country>
    <state />
    <county />
    <city>liberec</city>
    <postcode />
    <street>neklanova</street>
    <house_no>800</house_no>
    <requiredlevels />
  </request>
</response>
<error>0</error>
<error_message />
<count>1</count>
<prev_avail>0</prev_avail>
<next_avail>0</next_avail>
<results>
  <item>
    <id>house_no;203425574</id>
    <descr>Neklanova 800/13, Liberec, 460 14</descr>
    <descrcx>okres Liberec</descrcx>
    <capabilities>
      <detail>1</detail>
    </capabilities>
    <pos>
      <proj>WGS-84</proj>
      <lat>50.789836</lat>
      <lon>15.069616</lon>
    </pos>
    <level>house_no</level>
    <countryisoa2>CZ</countryisoa2>
    <countryisoa3>CZE</countryisoa3>
    <countryison>203</countryison>
    <countryivrc>CZ</countryivrc>
    <countryshortdescrcz>Česko</countryshortdescrcz>
    <countrydescrcz>Česká republika</countrydescrcz>
  </item>
</results>
</searchresults>
```



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```
<countryshortdescren>Czech Republic</countryshortdescren>
<countrydescren>Czech Republic</countrydescren>
<statedescr>Liberecký kraj</statedescr>
<stateadminlevelname>kraj</stateadminlevelname>
<countydescr>Liberec</countydescr>
<countyadminlevelname>okres</countyadminlevelname>
<citydescr>Liberec</citydescr>
<cityadminlevelname>obec</cityadminlevelname>
<cityispart>0</cityispart>
<parentcitydescr />
<parentcityadminlevelname />
<citypartdescr />
<citypartadminlevelname />
<streetdescr>Neklanova</streetdescr>
<housenodescr>800/13</housenodescr>
<housenopostcode>460 14</housenopostcode>
<housenoruiian>23715294</housenoruiian>
<housenodescriptive>800</housenodescriptive>
<housenoorientation>13</housenoorientation>
<housenoregistration />
<housenoreplacement />
<matchpercentage>98.8235294118</matchpercentage>
</item>
</results>
<boundingbox>
  <min>
    <proj>WGS-84</proj>
    <lat>50.789836</lat>
    <lon>15.069616</lon>
  </min>
  <max>
    <proj>WGS-84</proj>
    <lat>50.789836</lat>
    <lon>15.069616</lon>
  </max>
</boundingbox>
<precision>0</precision>
<realsearchvalues>
  <country>cze</country>
  <state />
  <county />
  <city>liberec</city>
  <postcode />
  <street>neklanova</street>
  <houseno>800</houseno>
</realsearchvalues>
</response>
</searchresults>
```

6.9.2 HTTP POST XML

Request:

http://services.position.cz/search/?cmd=search_comp&ver=4



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POST data:

```
<?xml version="1.0" encoding="utf-8"?>
<options>
  <country>CZE</country>
  <city>liberec</city>
  <street>neklanova</street>
  <house_no>800</house_no>
  <resfields>*</resfields>
</options>
```

Response:

```
<?xml version="1.0" encoding="UTF-8"?>
<searchresults>
  <request>
    <version>4</version>
    <cmd>search_comp</cmd>
    <pagingtype>3</pagingtype>
    <offset>0</offset>
    <count>10</count>
    <country>CZE</country>
    <state />
    <county />
    <city>liberec</city>
    <postcode />
    <street>neklanova</street>
    <housetno>800</housetno>
    <requiredlevels />
  </request>
  <response>
    <error>0</error>
    <errormessage />
    <count>1</count>
    <prevavail>0</prevavail>
    <nextavail>0</nextavail>
    <results>
      <item>
        <id>house_no;203425574</id>
        <descr>Neklanova 800/13, Liberec, 460 14</descr>
        <descres>okres Liberec</descres>
        <capabilities>
          <detail>1</detail>
        </capabilities>
        <pos>
          <proj>WGS-84</proj>
          <lat>50.789836</lat>
          <lon>15.069616</lon>
        </pos>
        <level>house_no</level>
        <countryisoa2>CZ</countryisoa2>
        <countryisoa3>CZE</countryisoa3>
        <countryison>203</countryison>
        <countryivrc>CZ</countryivrc>
        <countryshortdescrcz>Česko</countryshortdescrcz>
        <countrydescrcz>Česká republika</countrydescrcz>
        <countryshortdescren>Czech Republic</countryshortdescren>
```



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```
<countrydescren>Czech Republic</countrydescren>
<statedescr>Liberecký kraj</statedescr>
<stateadminlevelname>kraj</stateadminlevelname>
<countydescr>Liberec</countydescr>
<countyadminlevelname>okres</countyadminlevelname>
<citydescr>Liberec</citydescr>
<cityadminlevelname>obec</cityadminlevelname>
<cityispart>0</cityispart>
<parentcitydescr />
<parentcityadminlevelname />
<citypartdescr />
<citypartadminlevelname />
<streetdescr>Neklanova</streetdescr>
<housenodescr>800/13</housenodescr>
<housenopostcode>460 14</housenopostcode>
<housenoruiian>23715294</housenoruiian>
<housenodescriptive>800</housenodescriptive>
<housenoorientation>13</housenoorientation>
<housenoregistration />
<housenoreplacement />
<matchpercentage>98.8235294118</matchpercentage>
</item>
</results>
<boundingbox>
  <min>
    <proj>WGS-84</proj>
    <lat>50.789836</lat>
    <lon>15.069616</lon>
  </min>
  <max>
    <proj>WGS-84</proj>
    <lat>50.789836</lat>
    <lon>15.069616</lon>
  </max>
</boundingbox>
<precision>0</precision>
<realsearchvalues>
  <country>cze</country>
  <state />
  <county />
  <city>liberec</city>
  <postcode />
  <street>neklanova</street>
  <houseno>800</houseno>
</realsearchvalues>
</response>
</searchresults>
```



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7 ADMINISTRATIVE LEVEL 1 SEARCH (COUNTRIES)

7.1 HTTP GET - PARAMETERS

Parameters are identical to parameters of „Line address search“ (see [HTTP GET - parameters](#)) with following exceptions:

- parameter *cmd* has fixed value "search_country"

7.2 HTTP GET - RESPONSE

Response is identical to response of „Line address search“ (see [HTTP GET - response](#))

7.3 HTTP POST FORM - PARAMETERS

see [HTTP GET - parameters](#)

7.4 HTTP POST FORM - RESPONSE

see [HTTP GET - response](#)

7.5 HTTP POST XML - PARAMETERS

7.5.1 URL PARAMETERS

ver	mandatory; interface version Fixed value: 4
cmd	mandatory; method name Fixed value: „search_country“

7.5.2 REQUEST BODY

Request body is identical to request body of „Line address search“ (see [Request body](#))

7.6 HTTP POST XML - RESPONSE

see [HTTP GET - response](#)

7.7 SOAP - PARAMETERS

SOAP interface Method: SearchCountry

Parameters are identical to parameters of „Line address search“ (see [SOAP - parameters](#))

7.8 SOAP - RESPONSE

Response is identical to response of „Line address search“ (see [SOAP - response](#))

8 ADMINISTRATIVE LEVEL 2 SEARCH (REGIONS, AREAS ETC.)

8.1 HTTP GET - PARAMETERS

ver	mandatory; interface version Fixed value: 4								
cmd	mandatory; method name Fixed value: „search_state“								
text	mandatory; search text								
pgt	optional; paging type Default value: autodetection by existence of parameters <ul style="list-style-type: none"> 1. If given at least one of parameters <i>pgn</i> - <i>pgs</i>, value 1 is used 2. If given at least one of parameters <i>from</i> - <i>to</i>, value 2 is used 3. In all other cases value 3 is used Allowed values: <table border="1" style="width: 100%;"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i></td> </tr> <tr> <td>2</td> <td>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>. Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</td> </tr> <tr> <td>3</td> <td>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>. Unlike previous type this returns a flag of next page availability.</td> </tr> </table>	1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>	2	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!	3	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Unlike previous type this returns a flag of next page availability.		
1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>								
2	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!								
3	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Unlike previous type this returns a flag of next page availability.								
from	optional; first required record (records are numbered from 1) Default value: 1								
to	optional; last required record (records are numbered from 1) Default value: 10								
pgs	optional; page size (number of records per page) Default value: 10								
pgn	optional; number of the required page (pages are numbered from 1) Default value: 1								
offset	optional; number of skipped records Default value: 0								
count	optional; number of required records Default value: 10								
outproj	optional; projection of output coordinates Default value: WGS-84								
outpos	optional; required coordinate format definition Default value: 1 Allowed values: <table border="1" style="width: 100%;"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form
0	Output contains no coordinates								
1	Output coordinates in structure								
2	Output coordinates in text form								
3	Output coordinates in both - structure and text - form								
acountry	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes								
citynorm	optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values:								

	0	Off																																																												
	1	On																																																												
resfields	<p>optional; semicolon-separated list of required special fields in output Allowed values:</p> <table border="1"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>lvl</td> <td>Result level</td> </tr> <tr> <td>ctryisoa2</td> <td>Country ISO 3166-1 alpha 2 code</td> </tr> <tr> <td>ctryisoa3</td> <td>Country ISO 3166-1 alpha 3 code</td> </tr> <tr> <td>ctryison</td> <td>Country ISO 3166-1 numeric code</td> </tr> <tr> <td>ctryivrc</td> <td>Country code used for vehicle licence plates (international vehicle registration code)</td> </tr> <tr> <td>ctrydescrcz</td> <td>Full country name in Czech language</td> </tr> <tr> <td>ctrydescrcz</td> <td>Abbreviated country name in Czech language</td> </tr> <tr> <td>ctrydescren</td> <td>Full country name in English language</td> </tr> <tr> <td>ctrydescren</td> <td>Abbreviated country name in English language</td> </tr> <tr> <td>stdescr</td> <td>State/region etc. name (meaning may vary)</td> </tr> <tr> <td>staln</td> <td>Name of administrative level 2 (state, region, federal republic etc.)</td> </tr> <tr> <td>ctydescr</td> <td>County name etc. (meaning may vary)</td> </tr> <tr> <td>ctyaln</td> <td>Name of administrative level 3 (e.g. county)</td> </tr> <tr> <td>citydescr</td> <td>City name</td> </tr> <tr> <td>cityaln</td> <td>Name of administrative level 4 (city, city part etc.)</td> </tr> <tr> <td>cityispart</td> <td>Flag indicating whether city is a city part</td> </tr> <tr> <td>cityptdescr</td> <td>City part name</td> </tr> <tr> <td>cityptaln</td> <td>Name of administrative level (city part)</td> </tr> <tr> <td>pcitydescr</td> <td>Parent city name</td> </tr> <tr> <td>pcityaln</td> <td>Name of administrative level (parent city)</td> </tr> <tr> <td>strdescr</td> <td>Street name</td> </tr> <tr> <td>hnddescr</td> <td>House number</td> </tr> <tr> <td>hnpost</td> <td>Post code</td> </tr> <tr> <td>hnruian</td> <td>RUIAN address code (for Czech addresses only)</td> </tr> <tr> <td>hnd</td> <td>House number part - descriptive number</td> </tr> <tr> <td>hno</td> <td>House number part - orientation number</td> </tr> <tr> <td>hnreg</td> <td>House number part - registration number</td> </tr> <tr> <td>hnrepl</td> <td>House number part - replacement number</td> </tr> <tr> <td>realsearchvalues</td> <td>Real values used for search</td> </tr> </table>		*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code	ctryisoa3	Country ISO 3166-1 alpha 3 code	ctryison	Country ISO 3166-1 numeric code	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)	ctrydescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrydescren	Full country name in English language	ctrydescren	Abbreviated country name in English language	stdescr	State/region etc. name (meaning may vary)	staln	Name of administrative level 2 (state, region, federal republic etc.)	ctydescr	County name etc. (meaning may vary)	ctyaln	Name of administrative level 3 (e.g. county)	citydescr	City name	cityaln	Name of administrative level 4 (city, city part etc.)	cityispart	Flag indicating whether city is a city part	cityptdescr	City part name	cityptaln	Name of administrative level (city part)	pcitydescr	Parent city name	pcityaln	Name of administrative level (parent city)	strdescr	Street name	hnddescr	House number	hnpost	Post code	hnruian	RUIAN address code (for Czech addresses only)	hnd	House number part - descriptive number	hno	House number part - orientation number	hnreg	House number part - registration number	hnrepl	House number part - replacement number	realsearchvalues	Real values used for search
*	All of the following values																																																													
lvl	Result level																																																													
ctryisoa2	Country ISO 3166-1 alpha 2 code																																																													
ctryisoa3	Country ISO 3166-1 alpha 3 code																																																													
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ctrydescren	Full country name in English language																																																													
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stdescr	State/region etc. name (meaning may vary)																																																													
staln	Name of administrative level 2 (state, region, federal republic etc.)																																																													
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ctyaln	Name of administrative level 3 (e.g. county)																																																													
citydescr	City name																																																													
cityaln	Name of administrative level 4 (city, city part etc.)																																																													
cityispart	Flag indicating whether city is a city part																																																													
cityptdescr	City part name																																																													
cityptaln	Name of administrative level (city part)																																																													
pcitydescr	Parent city name																																																													
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strdescr	Street name																																																													
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hnruian	RUIAN address code (for Czech addresses only)																																																													
hnd	House number part - descriptive number																																																													
hno	House number part - orientation number																																																													
hnreg	House number part - registration number																																																													
hnrepl	House number part - replacement number																																																													
realsearchvalues	Real values used for search																																																													
nonlatout	<p>optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>		1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used																																																						
1	Allowed																																																													
2	Disabled																																																													
3	Allowed only if non-latin alfabet in input text is used																																																													
defcntry	<p>optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes</p>																																																													
alnlng	<p>optional; language of administrative levels name Default value: CZE Allowed values:</p>																																																													



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	CZE	Czech				
	ENG	English				
	DEF	Country's default language				
refpt	<p>optional; reference geographic point used for sorting of first X found results by the distance from this point ascending Point is defined as a string using following format: [projection;]partA;partB[;partN...] where:</p> <table border="1"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA partB</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified</td> </tr> </table> <p>Example: WGS-84;50;15</p>		projection	Optional projection name. Default value: WGS-84	partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified
projection	Optional projection name. Default value: WGS-84					
partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified					
pids_country	<p>optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)</p>					
ouser	optional; user name to access the service (if authorization is used)					
opass	optional; password to access the service (if authorization is used)					
oreqid	optional; used to transfer any value from input to output of the service					
ooutput	<p>optional; output type Default value: xml Allowed values:</p> <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table> <p>Notice: In case of passing unsupported value the service returns HTTP status 400</p>		xml	Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.	js	Output is JavaScript object
xml	Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.					
js	Output is JavaScript object					
callback	optional, makes sense only when using parameter output=js ; name of callback function to be called					

8.2 HTTP GET - RESPONSE

Response is identical to response of „Line address search“ (see [HTTP GET - response](#))

8.3 HTTP POST FORM - PARAMETERS

see [HTTP GET - parameters](#)

8.4 HTTP POST FORM - RESPONSE

see [HTTP GET - response](#)

8.5 HTTP POST XML - PARAMETERS

8.5.1 URL PARAMETERS

ver	mandatory; interface version Fixed value: 4
cmd	mandatory; method name

Fixed value: „search_state“

8.5.2 REQUEST BODY

<options>									
<text>	mandatory; search text								
<pgt>	<p>optional; paging type</p> <p>Default value: autodetection by existence of parameters</p> <ol style="list-style-type: none"> If given at least one of parameters <i>pgn</i> - <i>pgs</i>, value 1 is used If given at least one of parameters <i>from</i> - <i>to</i>, value 2 is used In all other cases value 3 is used <p>Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i></td> </tr> <tr> <td>2</td> <td> <p>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>.</p> <p>Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</p> </td> </tr> <tr> <td>3</td> <td> <p>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>.</p> <p>Unlike previous type this returns a flag of next page availability.</p> </td> </tr> </table>	1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>	2	<p>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>.</p> <p>Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</p>	3	<p>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>.</p> <p>Unlike previous type this returns a flag of next page availability.</p>		
1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>								
2	<p>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>.</p> <p>Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</p>								
3	<p>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>.</p> <p>Unlike previous type this returns a flag of next page availability.</p>								
<from>	<p>optional; first required record (records are numbered from 1)</p> <p>Default value: 1</p>								
<to>	<p>optional; last required record (records are numbered from 1)</p> <p>Default value: 10</p>								
<pgs>	<p>optional; page size (number of records per page)</p> <p>Default value: 10</p>								
<pgn>	<p>optional; number of the required page (pages are numbered from 1)</p> <p>Default value: 1</p>								
<offset>	<p>optional; number of skipped records</p> <p>Default value: 0</p>								
<count>	<p>optional; number of required records</p> <p>Default value: 10</p>								
<outproj>	<p>optional; projection of output coordinates</p> <p>Default value: WGS-84</p>								
<outpos>	<p>optional; required coordinate format definition</p> <p>Default value: 1</p> <p>Allowed values:</p> <table border="1"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form
0	Output contains no coordinates								
1	Output coordinates in structure								
2	Output coordinates in text form								
3	Output coordinates in both - structure and text - form								
<acountry>	<p>optional; semicolon-separated list of countries which will be searched</p> <p>Allowed values: ISO 3166-1 alpha 3 codes</p>								
<citynorm>	<p>optional; flag whether city normalization is required (city parts are returned individually and not in city section)</p> <p>Default value: 0</p> <p>Allowed values:</p> <table border="1"> <tr> <td>0</td> <td>Off</td> </tr> <tr> <td>1</td> <td>On</td> </tr> </table>	0	Off	1	On				
0	Off								
1	On								

<resfields>	<p>optional; semicolon-separated list of required special fields in output Allowed values:</p> <table border="1"> <tr> <td data-bbox="435 443 660 479">*</td> <td data-bbox="660 443 1434 479">All of the following values</td> </tr> <tr> <td data-bbox="435 479 660 512">lvl</td> <td data-bbox="660 479 1434 512">Result level</td> </tr> <tr> <td data-bbox="435 512 660 546">ctryisoa2</td> <td data-bbox="660 512 1434 546">Country ISO 3166-1 alpha 2 code</td> </tr> <tr> <td data-bbox="435 546 660 580">ctryisoa3</td> <td data-bbox="660 546 1434 580">Country ISO 3166-1 alpha 3 code</td> </tr> <tr> <td data-bbox="435 580 660 613">ctryison</td> <td data-bbox="660 580 1434 613">Country ISO 3166-1 numeric code</td> </tr> <tr> <td data-bbox="435 613 660 680">ctryivrc</td> <td data-bbox="660 613 1434 680">Country code used for vehicle licence plates (international vehicle registration code)</td> </tr> <tr> <td data-bbox="435 680 660 714">ctrydescrcz</td> <td data-bbox="660 680 1434 714">Full country name in Czech language</td> </tr> <tr> <td data-bbox="435 714 660 748">ctrydescrcz</td> <td data-bbox="660 714 1434 748">Abbreviated country name in Czech language</td> </tr> <tr> <td data-bbox="435 748 660 781">ctrydescren</td> <td data-bbox="660 748 1434 781">Full country name in English language</td> </tr> <tr> <td data-bbox="435 781 660 815">ctrydescren</td> <td data-bbox="660 781 1434 815">Abbreviated country name in English language</td> </tr> <tr> <td data-bbox="435 815 660 848">stdescr</td> <td data-bbox="660 815 1434 848">State/region etc. name (meaning may vary)</td> </tr> <tr> <td data-bbox="435 848 660 882">staln</td> <td data-bbox="660 848 1434 882">Name of administrative level 2 (state, region, federal republic etc.)</td> </tr> <tr> <td data-bbox="435 882 660 916">ctydescr</td> <td data-bbox="660 882 1434 916">County name etc. (meaning may vary)</td> </tr> <tr> <td data-bbox="435 916 660 949">ctyaln</td> <td data-bbox="660 916 1434 949">Name of administrative level 3 (e.g. county)</td> </tr> <tr> <td data-bbox="435 949 660 983">citydescr</td> <td data-bbox="660 949 1434 983">City name</td> </tr> <tr> <td data-bbox="435 983 660 1016">ctyaln</td> <td data-bbox="660 983 1434 1016">Name of administrative level 4 (city, city part etc.)</td> </tr> <tr> <td data-bbox="435 1016 660 1050">cityispart</td> <td data-bbox="660 1016 1434 1050">Flag indicating whether city is a city part</td> </tr> <tr> <td data-bbox="435 1050 660 1084">cityptdescr</td> <td data-bbox="660 1050 1434 1084">City part name</td> </tr> <tr> <td data-bbox="435 1084 660 1117">cityptaln</td> <td data-bbox="660 1084 1434 1117">Name of administrative level (city part)</td> </tr> <tr> <td data-bbox="435 1117 660 1151">pcitydescr</td> <td data-bbox="660 1117 1434 1151">Parent city name</td> </tr> <tr> <td data-bbox="435 1151 660 1184">pcityaln</td> <td data-bbox="660 1151 1434 1184">Name of administrative level (parent city)</td> </tr> <tr> <td data-bbox="435 1184 660 1218">strdescr</td> <td data-bbox="660 1184 1434 1218">Street name</td> </tr> <tr> <td data-bbox="435 1218 660 1252">hndescr</td> <td data-bbox="660 1218 1434 1252">House number</td> </tr> <tr> <td data-bbox="435 1252 660 1285">hnpost</td> <td data-bbox="660 1252 1434 1285">Post code</td> </tr> <tr> <td data-bbox="435 1285 660 1319">hnruian</td> <td data-bbox="660 1285 1434 1319">RUIAN address code (for Czech addresses only)</td> </tr> <tr> <td data-bbox="435 1319 660 1352">hnd</td> <td data-bbox="660 1319 1434 1352">House number part - descriptive number</td> </tr> <tr> <td data-bbox="435 1352 660 1386">hno</td> <td data-bbox="660 1352 1434 1386">House number part - orientation number</td> </tr> <tr> <td data-bbox="435 1386 660 1420">hnreg</td> <td data-bbox="660 1386 1434 1420">House number part - registration number</td> </tr> <tr> <td data-bbox="435 1420 660 1453">hnrepl</td> <td data-bbox="660 1420 1434 1453">House number part - replacement number</td> </tr> <tr> <td data-bbox="435 1453 660 1487">realsearchvalues</td> <td data-bbox="660 1453 1434 1487">Real values used for search</td> </tr> </table>	*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code	ctryisoa3	Country ISO 3166-1 alpha 3 code	ctryison	Country ISO 3166-1 numeric code	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)	ctrydescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrydescren	Full country name in English language	ctrydescren	Abbreviated country name in English language	stdescr	State/region etc. name (meaning may vary)	staln	Name of administrative level 2 (state, region, federal republic etc.)	ctydescr	County name etc. (meaning may vary)	ctyaln	Name of administrative level 3 (e.g. county)	citydescr	City name	ctyaln	Name of administrative level 4 (city, city part etc.)	cityispart	Flag indicating whether city is a city part	cityptdescr	City part name	cityptaln	Name of administrative level (city part)	pcitydescr	Parent city name	pcityaln	Name of administrative level (parent city)	strdescr	Street name	hndescr	House number	hnpost	Post code	hnruian	RUIAN address code (for Czech addresses only)	hnd	House number part - descriptive number	hno	House number part - orientation number	hnreg	House number part - registration number	hnrepl	House number part - replacement number	realsearchvalues	Real values used for search
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<nonlatout>	<p>optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values:</p> <table border="1"> <tr> <td data-bbox="435 1592 517 1626">1</td> <td data-bbox="517 1592 1434 1626">Allowed</td> </tr> <tr> <td data-bbox="435 1626 517 1659">2</td> <td data-bbox="517 1626 1434 1659">Disabled</td> </tr> <tr> <td data-bbox="435 1659 517 1693">3</td> <td data-bbox="517 1659 1434 1693">Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used																																																						
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<defcntry>	<p>optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes</p>																																																												
<alnlang>	<p>optional; language of administrative levels name Default value: CZE Allowed values:</p> <table border="1"> <tr> <td data-bbox="435 1924 517 1957">CZE</td> <td data-bbox="517 1924 1434 1957">Czech</td> </tr> <tr> <td data-bbox="435 1957 517 1989">ENG</td> <td data-bbox="517 1957 1434 1989">English</td> </tr> </table>	CZE	Czech	ENG	English																																																								
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ENG	English																																																												

	DEF	Country's default language				
<refpt>	<p>optional; reference geographic point used for sorting of first X found results by the distance from this point ascending</p> <p>Point is defined as a string using following format: [projection;]partA;partB[;partN...] where:</p> <table border="1"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA partB</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified</td> </tr> </table> <p>Example: WGS-84;50;15</p>		projection	Optional projection name. Default value: WGS-84	partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified
projection	Optional projection name. Default value: WGS-84					
partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified					
<pids_country>	<p>optional; pipe („ “) separated list of administrative level 1 (countries) record IDs</p> <p>Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)</p>					
<auser>	optional; user name to access the service (if authorization is used)					
<apass>	optional; password to access the service (if authorization is used)					
<reqid>	optional; used to transfer any value from input to output of the service					
<output>	<p>optional; output type</p> <p>Default value: xml</p> <p>Allowed values:</p> <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table> <p>Notice: In case of passing unsupported value the service returns HTTP status 400</p>		xml	Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.	js	Output is JavaScript object
xml	Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.					
js	Output is JavaScript object					
<callback>	optional, makes sense only when using parameter output=js ; name of callback function to be called					
</options>						

8.6 HTTP POST XML - RESPONSE

see [HTTP GET - response](#)

8.7 SOAP - PARAMETERS

SOAP interface Method: SearchState

Text	mandatory; search text				
PagingType	<p>optional; paging type</p> <p>Default value: autodetection by existence of parameters</p> <ol style="list-style-type: none"> If given at least one of parameters PageNumber - PageSize, value 1 is used If given at least one of parameters RecordFrom - RecordTo, value 2 is used In all other cases value 3 is used <p>Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters PageSize and PageNumber</td> </tr> <tr> <td>2</td> <td>paging by records; for further setting use a pair of parameters RecordFrom - RecordTo or Offset - Count.</td> </tr> </table>	1	paging by pages; for further setting use parameters PageSize and PageNumber	2	paging by records; for further setting use a pair of parameters RecordFrom - RecordTo or Offset - Count .
1	paging by pages; for further setting use parameters PageSize and PageNumber				
2	paging by records; for further setting use a pair of parameters RecordFrom - RecordTo or Offset - Count .				

	<p>Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</p> <p>3 paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>. Unlike previous type this returns a flag of next page availability.</p>																						
RecordFrom	optional; first required record (records are numbered from 1) Default value: 1																						
RecordTo	optional; last required record (records are numbered from 1) Default value: 10																						
PageSize	optional; page size (number of records per page) Default value: 10																						
PageNumber	optional; number of the required page (pages are numbered from 1) Default value: 1																						
Offset	optional; number of skipped records Default value: 0																						
Count	optional; number of required records Default value: 10																						
OutputProjection	optional; projection of output coordinates Default value: WGS-84																						
OutputPosition	optional; required coordinate format definition Default value: 1 Allowed values: <table border="1"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form														
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AllowedCountries	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes																						
CityNormalization	optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values: <table border="1"> <tr> <td>0</td> <td>Off</td> </tr> <tr> <td>1</td> <td>On</td> </tr> </table>	0	Off	1	On																		
0	Off																						
1	On																						
ResultFields	optional; semicolon-separated list of required special fields in output Allowed values: <table border="1"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>lvl</td> <td>Result level</td> </tr> <tr> <td>ctryisoa2</td> <td>Country ISO 3166-1 alpha 2 code</td> </tr> <tr> <td>ctryisoa3</td> <td>Country ISO 3166-1 alpha 3 code</td> </tr> <tr> <td>ctryison</td> <td>Country ISO 3166-1 numeric code</td> </tr> <tr> <td>ctryivrc</td> <td>Country code used for vehicle licence plates (international vehicle registration code)</td> </tr> <tr> <td>ctrydescrcz</td> <td>Full country name in Czech language</td> </tr> <tr> <td>ctrydescrcz</td> <td>Abbreviated country name in Czech language</td> </tr> <tr> <td>ctrydescren</td> <td>Full country name in English language</td> </tr> <tr> <td>ctrydescren</td> <td>Abbreviated country name in English language</td> </tr> <tr> <td>stdescr</td> <td>State/region etc. name (meaning may vary)</td> </tr> </table>	*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code	ctryisoa3	Country ISO 3166-1 alpha 3 code	ctryison	Country ISO 3166-1 numeric code	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)	ctrydescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrydescren	Full country name in English language	ctrydescren	Abbreviated country name in English language	stdescr	State/region etc. name (meaning may vary)
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	staln	Name of administrative level 2 (state, region, federal republic etc.)
	ctydescr	County name etc. (meaning may vary)
	ctyaln	Name of administrative level 3 (e.g. county)
	citydescr	City name
	cityaln	Name of administrative level 4 (city, city part etc.)
	cityispart	Flag indicating whether city is a city part
	cityptdescr	City part name
	cityptaln	Name of administrative level (city part)
	pcitydescr	Parent city name
	pcityaln	Name of administrative level (parent city)
	strdescr	Street name
	hnddescr	House number
	hnpost	Post code
	hnruian	RUIAN address code (for Czech addresses only)
	hnd	House number part - descriptive number
	hno	House number part - orientation number
	hnreg	House number part - registration number
	hnrepl	House number part - replacement number
	realsearchvalues	Real values used for search
AllowNonLatinOutput	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values:	
	1	Allowed
	2	Disabled
	3	Allowed only if non-latin alfabet in input text is used
DefaultCountry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes	
AdminLevelNameLang	optional; language of administrative levels name Default value: CZE Allowed values:	
	CZE	Czech
	ENG	English
	DEF	Country's default language
ReferencePoint	optional; reference geographic point used for sorting of first X found results by the distance from this point ascending Point is defined as a string using following format: [projection;]partA;partB[;partN...] where:	
	projection	Optional projection name. Default value: WGS-84
	partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified
	Example: WGS-84;50;15	
ParentIDsCountry	optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search	



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	<i>(countries)</i>
User	optional; user name to access the service (if authorization is used)
Password	optional; password to access the service (if authorization is used)
ReqID	optional; used to transfer any value from input to output of the service

8.8 SOAP - RESPONSE

Response is identical to response of „Line address search“ (see [SOAP - response](#))

9 ADMINISTRATIVE LEVEL 3 SEARCH (COUNTIES ETC.)

9.1 HTTP GET - PARAMETERS

ver	mandatory; interface version Fixed value: 4								
cmd	mandatory; method name Fixed value: „search_county“								
text	mandatory; search text								
pgt	optional; paging type Default value: autodetection by existence of parameters <ol style="list-style-type: none"> 4. If given at least one of parameters <i>pgn</i> - <i>pgs</i>, value 1 is used 5. If given at least one of parameters <i>from</i> - <i>to</i>, value 2 is used 6. In all other cases value 3 is used Allowed values: <table border="1" style="margin-left: 20px;"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i></td> </tr> <tr> <td>2</td> <td>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>. Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</td> </tr> <tr> <td>3</td> <td>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>. Unlike previous type this returns a flag of next page availability.</td> </tr> </table>	1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>	2	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!	3	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Unlike previous type this returns a flag of next page availability.		
1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>								
2	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!								
3	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Unlike previous type this returns a flag of next page availability.								
from	optional; first required record (records are numbered from 1) Default value: 1								
to	optional; last required record (records are numbered from 1) Default value: 10								
pgs	optional; page size (number of records per page) Default value: 10								
pgn	optional; number of the required page (pages are numbered from 1) Default value: 1								
offset	optional; number of skipped records Default value: 0								
count	optional; number of required records Default value: 10								
outproj	optional; projection of output coordinates Default value: WGS-84								
outpos	optional; required coordinate format definition Default value: 1 Allowed values: <table border="1" style="margin-left: 20px;"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form
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1	Output coordinates in structure								
2	Output coordinates in text form								
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acountry	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes								
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resfields	<p>optional; semicolon-separated list of required special fields in output Allowed values:</p> <table border="1"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>lvl</td> <td>Result level</td> </tr> <tr> <td>ctryisoa2</td> <td>Country ISO 3166-1 alpha 2 code</td> </tr> <tr> <td>ctryisoa3</td> <td>Country ISO 3166-1 alpha 3 code</td> </tr> <tr> <td>ctryison</td> <td>Country ISO 3166-1 numeric code</td> </tr> <tr> <td>ctryivrc</td> <td>Country code used for vehicle licence plates (international vehicle registration code)</td> </tr> <tr> <td>ctrysdscrcz</td> <td>Full country name in Czech language</td> </tr> <tr> <td>ctrydscrcz</td> <td>Abbreviated country name in Czech language</td> </tr> <tr> <td>ctrysdscren</td> <td>Full country name in English language</td> </tr> <tr> <td>ctrydscren</td> <td>Abbreviated country name in English language</td> </tr> <tr> <td>stdescr</td> <td>State/region etc. name (meaning may vary)</td> </tr> <tr> <td>staln</td> <td>Name of administrative level 2 (state, region, federal republic etc.)</td> </tr> <tr> <td>ctydescr</td> <td>County name etc. (meaning may vary)</td> </tr> <tr> <td>ctyaln</td> <td>Name of administrative level 3 (e.g. county)</td> </tr> <tr> <td>citydescr</td> <td>City name</td> </tr> <tr> <td>cityaln</td> <td>Name of administrative level 4 (city, city part etc.)</td> </tr> <tr> <td>cityispart</td> <td>Flag indicating whether city is a city part</td> </tr> <tr> <td>cityptdescr</td> <td>City part name</td> </tr> <tr> <td>cityptaln</td> <td>Name of administrative level (city part)</td> </tr> <tr> <td>pcitydescr</td> <td>Parent city name</td> </tr> <tr> <td>pcityaln</td> <td>Name of administrative level (parent city)</td> </tr> <tr> <td>strdescr</td> <td>Street name</td> </tr> <tr> <td>hndescr</td> <td>House number</td> </tr> <tr> <td>hnpost</td> <td>Post code</td> </tr> <tr> <td>hnruian</td> <td>RUIAN address code (for Czech addresses only)</td> </tr> <tr> <td>hnd</td> <td>House number part - descriptive number</td> </tr> <tr> <td>hno</td> <td>House number part - orientation number</td> </tr> <tr> <td>hnreg</td> <td>House number part - registration number</td> </tr> <tr> <td>hnrepl</td> <td>House number part - replacement number</td> </tr> <tr> <td>realsearchvalues</td> <td>Real values used for search</td> </tr> </table>		*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code	ctryisoa3	Country ISO 3166-1 alpha 3 code	ctryison	Country ISO 3166-1 numeric code	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)	ctrysdscrcz	Full country name in Czech language	ctrydscrcz	Abbreviated country name in Czech language	ctrysdscren	Full country name in English language	ctrydscren	Abbreviated country name in English language	stdescr	State/region etc. name (meaning may vary)	staln	Name of administrative level 2 (state, region, federal republic etc.)	ctydescr	County name etc. (meaning may vary)	ctyaln	Name of administrative level 3 (e.g. county)	citydescr	City name	cityaln	Name of administrative level 4 (city, city part etc.)	cityispart	Flag indicating whether city is a city part	cityptdescr	City part name	cityptaln	Name of administrative level (city part)	pcitydescr	Parent city name	pcityaln	Name of administrative level (parent city)	strdescr	Street name	hndescr	House number	hnpost	Post code	hnruian	RUIAN address code (for Czech addresses only)	hnd	House number part - descriptive number	hno	House number part - orientation number	hnreg	House number part - registration number	hnrepl	House number part - replacement number	realsearchvalues	Real values used for search
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defcntry	<p>optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes</p>																																																													
alnlng	<p>optional; language of administrative levels name Default value: CZE Allowed values:</p>																																																													

	CZE	Czech				
	ENG	English				
	DEF	Country's default language				
refpt	<p>optional; reference geographic point used for sorting of first X found results by the distance from this point ascending Point is defined as a string using following format: [projection;]partA;partB[;partN...] where:</p> <table border="1"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA partB</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified</td> </tr> </table> <p>Example: WGS-84;50;15</p>		projection	Optional projection name. Default value: WGS-84	partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified
projection	Optional projection name. Default value: WGS-84					
partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified					
pids_country	<p>optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)</p>					
pids_state	<p>optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)</p>					
auser	optional; user name to access the service (if authorization is used)					
apass	optional; password to access the service (if authorization is used)					
reqid	optional; used to transfer any value from input to output of the service					
output	<p>optional; output type Default value: xml Allowed values:</p> <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table> <p>Notice: In case of passing unsupported value the service returns HTTP status 400</p>		xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.	js	Output is JavaScript object
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js	Output is JavaScript object					
callback	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called					

9.2 HTTP GET - RESPONSE

Response is identical to response of „Line address search“ (see [HTTP GET - response](#))

9.3 HTTP POST FORM - PARAMETERS

see [HTTP GET - parameters](#)

9.4 HTTP POST FORM - RESPONSE

see [HTTP GET - response](#)

9.5 HTTP POST XML - PARAMETERS

9.5.1 URL PARAMETERS

ver	mandatory; interface version Fixed value: 4
cmd	mandatory; method name Fixed value: „search_county“

9.5.2 REQUEST BODY

<options>									
<text>	mandatory; search text								
<pgt>	<p>optional; paging type Default value: autodetection by existence of parameters</p> <ol style="list-style-type: none"> 4. If given at least one of parameters <i>pgn - pgs</i>, value 1 is used 5. If given at least one of parameters <i>from - to</i>, value 2 is used 6. In all other cases value 3 is used <p>Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i></td> </tr> <tr> <td>2</td> <td>paging by records; for further setting use a pair of parameters <i>from - to</i> or <i>offset - count</i>. Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</td> </tr> <tr> <td>3</td> <td>paging by records; for further setting use a pair of parameters <i>from - to</i> or <i>offset - count</i>. Unlike previous type this returns a flag of next page availability.</td> </tr> </table>	1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>	2	paging by records; for further setting use a pair of parameters <i>from - to</i> or <i>offset - count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!	3	paging by records; for further setting use a pair of parameters <i>from - to</i> or <i>offset - count</i> . Unlike previous type this returns a flag of next page availability.		
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<from>	optional; first required record (records are numbered from 1) Default value: 1								
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<pgs>	optional; page size (number of records per page) Default value: 10								
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<offset>	optional; number of skipped records Default value: 0								
<count>	optional; number of required records Default value: 10								
<outproj>	optional; projection of output coordinates Default value: WGS-84								
<outpos>	<p>optional; required coordinate format definition Default value: 1</p> <p>Allowed values:</p> <table border="1"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form
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<defcntry>	<p>optional; default country (if search result is different from default country, abbreviation of the particular country is included in output)</p> <p>Default value: CZE</p> <p>Allowed values: ISO 3166-1 alpha 3 codes</p>																																																												
<alnlang>	<p>optional; language of administrative levels name</p> <p>Default value: CZE</p>																																																												

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ENG	English						
DEF	Country's default language						
<refpt>	<p>optional; reference geographic point used for sorting of first X found results by the distance from this point ascending Point is defined as a string using following format: [projection;]partA;partB[;partN...] where:</p> <table border="1"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA partB</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified</td> </tr> </table> <p>Example: WGS-84;50;15</p>	projection	Optional projection name. Default value: WGS-84	partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified		
projection	Optional projection name. Default value: WGS-84						
partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified						
<pids_country>	<p>optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)</p>						
<pids_state>	<p>optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)</p>						
<auser>	optional; user name to access the service (if authorization is used)						
<apass>	optional; password to access the service (if authorization is used)						
<reqid>	optional; used to transfer any value from input to output of the service						
<output>	<p>optional; output type Default value: xml Allowed values:</p> <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table> <p>Notice: In case of passing unsupported value the service returns HTTP status 400</p>	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.	js	Output is JavaScript object		
xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.						
js	Output is JavaScript object						
<callback>	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called						
</options>							

9.6 HTTP POST XML - RESPONSE

see [HTTP GET - response](#)

9.7 SOAP - PARAMETERS

SOAP interface Method: SearchCounty

Text	mandatory; search text
PagingType	optional; paging type Default value: autodetection by existence of parameters

	<p>4. If given at least one of parameters <i>PageNumber</i> - <i>PageSize</i>, value 1 is used</p> <p>5. If given at least one of parameters <i>RecordFrom</i> - <i>RecordTo</i>, value 2 is used</p> <p>6. In all other cases value 3 is used</p> <p>Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters <i>PageSize</i> and <i>PageNumber</i></td> </tr> <tr> <td>2</td> <td>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>. Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</td> </tr> <tr> <td>3</td> <td>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>. Unlike previous type this returns a flag of next page availability.</td> </tr> </table>	1	paging by pages; for further setting use parameters <i>PageSize</i> and <i>PageNumber</i>	2	paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!	3	paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i> . Unlike previous type this returns a flag of next page availability.						
1	paging by pages; for further setting use parameters <i>PageSize</i> and <i>PageNumber</i>												
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3	paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i> . Unlike previous type this returns a flag of next page availability.												
RecordFrom	optional; first required record (records are numbered from 1) Default value: 1												
RecordTo	optional; last required record (records are numbered from 1) Default value: 10												
PageSize	optional; page size (number of records per page) Default value: 10												
PageNumber	optional; number of the required page (pages are numbered from 1) Default value: 1												
Offset	optional; number of skipped records Default value: 0												
Count	optional; number of required records Default value: 10												
OutputProjection	optional; projection of output coordinates Default value: WGS-84												
OutputPosition	optional; required coordinate format definition Default value: 1 Allowed values:												
	<table border="1"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form				
0	Output contains no coordinates												
1	Output coordinates in structure												
2	Output coordinates in text form												
3	Output coordinates in both - structure and text - form												
AllowedCountries	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes												
CityNormalization	optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values:												
	<table border="1"> <tr> <td>0</td> <td>Off</td> </tr> <tr> <td>1</td> <td>On</td> </tr> </table>	0	Off	1	On								
0	Off												
1	On												
ResultFields	optional; semicolon-separated list of required special fields in output Allowed values:												
	<table border="1"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>lvl</td> <td>Result level</td> </tr> <tr> <td>ctryisoa2</td> <td>Country ISO 3166-1 alpha 2 code</td> </tr> <tr> <td>ctryisoa3</td> <td>Country ISO 3166-1 alpha 3 code</td> </tr> <tr> <td>ctryison</td> <td>Country ISO 3166-1 numeric code</td> </tr> <tr> <td>ctryivrc</td> <td>Country code used for vehicle licence plates (international vehicle</td> </tr> </table>	*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code	ctryisoa3	Country ISO 3166-1 alpha 3 code	ctryison	Country ISO 3166-1 numeric code	ctryivrc	Country code used for vehicle licence plates (international vehicle
*	All of the following values												
lvl	Result level												
ctryisoa2	Country ISO 3166-1 alpha 2 code												
ctryisoa3	Country ISO 3166-1 alpha 3 code												
ctryison	Country ISO 3166-1 numeric code												
ctryivrc	Country code used for vehicle licence plates (international vehicle												

	registration code)						
ctrydescrcz	Full country name in Czech language						
ctrydescrcz	Abbreviated country name in Czech language						
ctrydescrlen	Full country name in English language						
ctrydescrlen	Abbreviated country name in English language						
stdescr	State/region etc. name (meaning may vary)						
staln	Name of administrative level 2 (state, region, federal republic etc.)						
ctydescr	County name etc. (meaning may vary)						
ctyaln	Name of administrative level 3 (e.g. county)						
citydescr	City name						
cityaln	Name of administrative level 4 (city, city part etc.)						
cityispart	Flag indicating whether city is a city part						
cityptdescr	City part name						
cityptaln	Name of administrative level (city part)						
pcitydescr	Parent city name						
pcityaln	Name of administrative level (parent city)						
strdescr	Street name						
hndescr	House number						
hnpost	Post code						
hnruian	RUIAN address code (for Czech addresses only)						
hnd	House number part - descriptive number						
hno	House number part - orientation number						
hnreg	House number part - registration number						
hnrepl	House number part - replacement number						
realsearchvalues	Real values used for search						
AllowNonLatinOutput	<p>optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.)</p> <p>Default value: 3</p> <p>Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
DefaultCountry	<p>optional; default country (if search result is different from default country, abbreviation of the particular country is included in output)</p> <p>Default value: CZE</p> <p>Allowed values: ISO 3166-1 alpha 3 codes</p>						
AdminLevelNameLang	<p>optional; language of administrative levels name</p> <p>Default value: CZE</p> <p>Allowed values:</p> <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
ReferencePoint	<p>optional; reference geographic point used for sorting of first X found results by the distance from this point ascending</p> <p>Point is defined as a string using following format: [projection;]partA;partB[;partN...]</p> <p>where:</p> <table border="1"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be</td> </tr> </table>	projection	Optional projection name. Default value: WGS-84	partA	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be		
projection	Optional projection name. Default value: WGS-84						
partA	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be						



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	partB	latitude and longitude specified
	Example: WGS-84;50;15	
ParentIDsCountry	optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service’s functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)	
ParentIDsState	optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service’s functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)	
User	optional; user name to access the service (if authorization is used)	
Password	optional; password to access the service (if authorization is used)	
ReqID	optional; used to transfer any value from input to output of the service	

9.8 SOAP - RESPONSE

Response is identical to response of „Line address search“ (see [SOAP - response](#))

10 CITY AND CITY PART SEARCH

10.1 HTTP GET - PARAMETERS

ver	mandatory; interface version Fixed value: 4								
cmd	mandatory; method name Fixed value: „search_city“								
text	mandatory; search text								
pgt	optional; paging type Default value: autodetection by existence of parameters <ol style="list-style-type: none"> 7. If given at least one of parameters <i>pgn</i> - <i>pgs</i>, value 1 is used 8. If given at least one of parameters <i>from</i> - <i>to</i>, value 2 is used 9. In all other cases value 3 is used Allowed values: <table border="1" style="margin-left: 20px;"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i></td> </tr> <tr> <td>2</td> <td>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>. Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</td> </tr> <tr> <td>3</td> <td>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>. Unlike previous type this returns a flag of next page availability.</td> </tr> </table>	1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>	2	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!	3	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Unlike previous type this returns a flag of next page availability.		
1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>								
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from	optional; first required record (records are numbered from 1) Default value: 1								
to	optional; last required record (records are numbered from 1) Default value: 10								
pgs	optional; page size (number of records per page) Default value: 10								
pgn	optional; number of the required page (pages are numbered from 1) Default value: 1								
offset	optional; number of skipped records Default value: 0								
count	optional; number of required records Default value: 10								
outproj	optional; projection of output coordinates Default value: WGS-84								
outpos	optional; required coordinate format definition Default value: 1 Allowed values: <table border="1" style="margin-left: 20px;"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form
0	Output contains no coordinates								
1	Output coordinates in structure								
2	Output coordinates in text form								
3	Output coordinates in both - structure and text - form								
acountry	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes								
citynorm	optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values:								

	0	Off																																																												
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resfields	<p>optional; semicolon-separated list of required special fields in output Allowed values:</p> <table border="1"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>lvl</td> <td>Result level</td> </tr> <tr> <td>ctryisoa2</td> <td>Country ISO 3166-1 alpha 2 code</td> </tr> <tr> <td>ctryisoa3</td> <td>Country ISO 3166-1 alpha 3 code</td> </tr> <tr> <td>ctryison</td> <td>Country ISO 3166-1 numeric code</td> </tr> <tr> <td>ctryivrc</td> <td>Country code used for vehicle licence plates (international vehicle registration code)</td> </tr> <tr> <td>ctrydescrcz</td> <td>Full country name in Czech language</td> </tr> <tr> <td>ctrydescrcz</td> <td>Abbreviated country name in Czech language</td> </tr> <tr> <td>ctrydescren</td> <td>Full country name in English language</td> </tr> <tr> <td>ctrydescren</td> <td>Abbreviated country name in English language</td> </tr> <tr> <td>stdescr</td> <td>State/region etc. name (meaning may vary)</td> </tr> <tr> <td>staln</td> <td>Name of administrative level 2 (state, region, federal republic etc.)</td> </tr> <tr> <td>ctydescr</td> <td>County name etc. (meaning may vary)</td> </tr> <tr> <td>ctyaln</td> <td>Name of administrative level 3 (e.g. county)</td> </tr> <tr> <td>citydescr</td> <td>City name</td> </tr> <tr> <td>cityaln</td> <td>Name of administrative level 4 (city, city part etc.)</td> </tr> <tr> <td>cityispart</td> <td>Flag indicating whether city is a city part</td> </tr> <tr> <td>cityptdescr</td> <td>City part name</td> </tr> <tr> <td>cityptaln</td> <td>Name of administrative level (city part)</td> </tr> <tr> <td>pcitydescr</td> <td>Parent city name</td> </tr> <tr> <td>pcityaln</td> <td>Name of administrative level (parent city)</td> </tr> <tr> <td>strdescr</td> <td>Street name</td> </tr> <tr> <td>hnddescr</td> <td>House number</td> </tr> <tr> <td>hnpost</td> <td>Post code</td> </tr> <tr> <td>hnruian</td> <td>RUIAN address code (for Czech addresses only)</td> </tr> <tr> <td>hnd</td> <td>House number part - descriptive number</td> </tr> <tr> <td>hno</td> <td>House number part - orientation number</td> </tr> <tr> <td>hnreg</td> <td>House number part - registration number</td> </tr> <tr> <td>hnrepl</td> <td>House number part - replacement number</td> </tr> <tr> <td>realsearchvalues</td> <td>Real values used for search</td> </tr> </table>		*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code	ctryisoa3	Country ISO 3166-1 alpha 3 code	ctryison	Country ISO 3166-1 numeric code	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)	ctrydescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrydescren	Full country name in English language	ctrydescren	Abbreviated country name in English language	stdescr	State/region etc. name (meaning may vary)	staln	Name of administrative level 2 (state, region, federal republic etc.)	ctydescr	County name etc. (meaning may vary)	ctyaln	Name of administrative level 3 (e.g. county)	citydescr	City name	cityaln	Name of administrative level 4 (city, city part etc.)	cityispart	Flag indicating whether city is a city part	cityptdescr	City part name	cityptaln	Name of administrative level (city part)	pcitydescr	Parent city name	pcityaln	Name of administrative level (parent city)	strdescr	Street name	hnddescr	House number	hnpost	Post code	hnruian	RUIAN address code (for Czech addresses only)	hnd	House number part - descriptive number	hno	House number part - orientation number	hnreg	House number part - registration number	hnrepl	House number part - replacement number	realsearchvalues	Real values used for search
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realsearchvalues	Real values used for search																																																													
nonlatout	<p>optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>		1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used																																																						
1	Allowed																																																													
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defcntry	<p>optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes</p>																																																													
alnlng	<p>optional; language of administrative levels name Default value: CZE Allowed values:</p>																																																													

	CZE	Czech				
	ENG	English				
	DEF	Country's default language				
refpt	<p>optional; reference geographic point used for sorting of first X found results by the distance from this point ascending Point is defined as a string using following format: [projection;]partA;partB[;partN...] where:</p> <table border="1"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA partB</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified</td> </tr> </table> <p>Example: WGS-84;50;15</p>		projection	Optional projection name. Default value: WGS-84	partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified
projection	Optional projection name. Default value: WGS-84					
partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified					
pids_country	<p>optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)</p>					
pids_state	<p>optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)</p>					
pids_county	<p>optional; pipe („ “) separated list of administrative level 3 (counties etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 3 search (counties etc.) or Hint for administrative level 3 search (counties etc.)</p>					
ouser	optional; user name to access the service (if authorization is used)					
opass	optional; password to access the service (if authorization is used)					
oreqid	optional; used to transfer any value from input to output of the service					
ooutput	<p>optional; output type Default value: xml Allowed values:</p> <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table> <p>Notice: In case of passing unsupported value the service returns HTTP status 400</p>		xml	Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.	js	Output is JavaScript object
xml	Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.					
js	Output is JavaScript object					
callback	optional, makes sense only when using parameter output=js ; name of callback function to be called					

10.2 HTTP GET - RESPONSE

Response is identical to response of „Line address search“ (see [HTTP GET - response](#))

10.3 HTTP POST FORM - PARAMETERS

see [HTTP GET - parameters](#)

10.4 HTTP POST FORM - RESPONSE

see [HTTP GET - response](#)

10.5 HTTP POST XML - PARAMETERS

10.5.1 URL PARAMETERS

ver	mandatory; interface version Fixed value: 4
cmd	mandatory; method name Fixed value: „search_city“

10.5.2 REQUEST BODY

<options>									
<text>	mandatory; search text								
<pgt>	optional; paging type Default value: autodetection by existence of parameters <ol style="list-style-type: none"> 7. If given at least one of parameters <i>pgn - pgs</i>, value 1 is used 8. If given at least one of parameters <i>from - to</i>, value 2 is used 9. In all other cases value 3 is used Allowed values: <table border="1" data-bbox="438 1041 1428 1299"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i></td> </tr> <tr> <td>2</td> <td>paging by records; for further setting use a pair of parameters <i>from - to</i> or <i>offset - count</i>. Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</td> </tr> <tr> <td>3</td> <td>paging by records; for further setting use a pair of parameters <i>from - to</i> or <i>offset - count</i>. Unlike previous type this returns a flag of next page availability.</td> </tr> </table>	1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>	2	paging by records; for further setting use a pair of parameters <i>from - to</i> or <i>offset - count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!	3	paging by records; for further setting use a pair of parameters <i>from - to</i> or <i>offset - count</i> . Unlike previous type this returns a flag of next page availability.		
1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>								
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3	paging by records; for further setting use a pair of parameters <i>from - to</i> or <i>offset - count</i> . Unlike previous type this returns a flag of next page availability.								
<from>	optional; first required record (records are numbered from 1) Default value: 1								
<to>	optional; last required record (records are numbered from 1) Default value: 10								
<pgs>	optional; page size (number of records per page) Default value: 10								
<pgn>	optional; number of the required page (pages are numbered from 1) Default value: 1								
<offset>	optional; number of skipped records Default value: 0								
<count>	optional; number of required records Default value: 10								
<outproj>	optional; projection of output coordinates Default value: WGS-84								
<outpos>	optional; required coordinate format definition Default value: 1 Allowed values: <table border="1" data-bbox="438 1870 1428 1998"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form
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3	Output coordinates in both - structure and text - form								



Position s.r.o.

Londýnská 665/45, 120 00 Praha 2

<http://www.position.cz>

<acountry>	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes																																																												
<citynorm>	optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values: <table border="1" data-bbox="446 571 1428 645"> <tr> <td>0</td> <td>Off</td> </tr> <tr> <td>1</td> <td>On</td> </tr> </table>	0	Off	1	On																																																								
0	Off																																																												
1	On																																																												
<resfields>	optional; semicolon-separated list of required special fields in output Allowed values: <table border="1" data-bbox="446 705 1428 1758"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>lvl</td> <td>Result level</td> </tr> <tr> <td>ctryisoa2</td> <td>Country ISO 3166-1 alpha 2 code</td> </tr> <tr> <td>ctryisoa3</td> <td>Country ISO 3166-1 alpha 3 code</td> </tr> <tr> <td>ctryison</td> <td>Country ISO 3166-1 numeric code</td> </tr> <tr> <td>ctryivrc</td> <td>Country code used for vehicle licence plates (international vehicle registration code)</td> </tr> <tr> <td>ctrydescrcz</td> <td>Full country name in Czech language</td> </tr> <tr> <td>ctrydescrcz</td> <td>Abbreviated country name in Czech language</td> </tr> <tr> <td>ctrydescren</td> <td>Full country name in English language</td> </tr> <tr> <td>ctrydescren</td> <td>Abbreviated country name in English language</td> </tr> <tr> <td>stdescr</td> <td>State/region etc. name (meaning may vary)</td> </tr> <tr> <td>staln</td> <td>Name of administrative level 2 (state, region, federal republic etc.)</td> </tr> <tr> <td>ctydescr</td> <td>County name etc. (meaning may vary)</td> </tr> <tr> <td>ctyaln</td> <td>Name of administrative level 3 (e.g. county)</td> </tr> <tr> <td>citydescr</td> <td>City name</td> </tr> <tr> <td>cityaln</td> <td>Name of administrative level 4 (city, city part etc.)</td> </tr> <tr> <td>cityispart</td> <td>Flag indicating whether city is a city part</td> </tr> <tr> <td>cityptdescr</td> <td>City part name</td> </tr> <tr> <td>cityptaln</td> <td>Name of administrative level (city part)</td> </tr> <tr> <td>pcitydescr</td> <td>Parent city name</td> </tr> <tr> <td>pcityaln</td> <td>Name of administrative level (parent city)</td> </tr> <tr> <td>strdescr</td> <td>Street name</td> </tr> <tr> <td>hndescr</td> <td>House number</td> </tr> <tr> <td>hnpost</td> <td>Post code</td> </tr> <tr> <td>hnruian</td> <td>RUIAN address code (for Czech addresses only)</td> </tr> <tr> <td>hnd</td> <td>House number part - descriptive number</td> </tr> <tr> <td>hno</td> <td>House number part - orientation number</td> </tr> <tr> <td>hnreg</td> <td>House number part - registration number</td> </tr> <tr> <td>hnrepl</td> <td>House number part - replacement number</td> </tr> <tr> <td>realsearchvalues</td> <td>Real values used for search</td> </tr> </table>	*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code	ctryisoa3	Country ISO 3166-1 alpha 3 code	ctryison	Country ISO 3166-1 numeric code	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)	ctrydescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrydescren	Full country name in English language	ctrydescren	Abbreviated country name in English language	stdescr	State/region etc. name (meaning may vary)	staln	Name of administrative level 2 (state, region, federal republic etc.)	ctydescr	County name etc. (meaning may vary)	ctyaln	Name of administrative level 3 (e.g. county)	citydescr	City name	cityaln	Name of administrative level 4 (city, city part etc.)	cityispart	Flag indicating whether city is a city part	cityptdescr	City part name	cityptaln	Name of administrative level (city part)	pcitydescr	Parent city name	pcityaln	Name of administrative level (parent city)	strdescr	Street name	hndescr	House number	hnpost	Post code	hnruian	RUIAN address code (for Czech addresses only)	hnd	House number part - descriptive number	hno	House number part - orientation number	hnreg	House number part - registration number	hnrepl	House number part - replacement number	realsearchvalues	Real values used for search
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<nonlatout>	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1" data-bbox="446 1848 1428 1960"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used																																																						
1	Allowed																																																												
2	Disabled																																																												
3	Allowed only if non-latin alfabet in input text is used																																																												
<defcntry>	optional; default country (if search result is different from default country, abbreviation)																																																												

	of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes						
<alnlang>	optional; language of administrative levels name Default value: CZE Allowed values: <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
<refpt>	optional; reference geographic point used for sorting of first X found results by the distance from this point ascending Point is defined as a string using following format: [projection;]partA;partB[;partN...] where: <table border="1"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA partB</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified</td> </tr> </table> Example: WGS-84;50;15	projection	Optional projection name. Default value: WGS-84	partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified		
projection	Optional projection name. Default value: WGS-84						
partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified						
<pids_country>	optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)						
<pids_state>	optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)						
<pids_county>	optional; pipe („ “) separated list of administrative level 3 (counties etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 3 search (counties etc.) or Hint for administrative level 3 search (counties etc.)						
<auser>	optional; user name to access the service (if authorization is used)						
<apass>	optional; password to access the service (if authorization is used)						
<reqid>	optional; used to transfer any value from input to output of the service						
<output>	optional; output type Default value: xml Allowed values: <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table> Notice: In case of passing unsupported value the service returns HTTP status 400	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.	js	Output is JavaScript object		
xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.						
js	Output is JavaScript object						
<callback>	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called						
</options>							

10.6 HTTP POST XML - RESPONSE

see [HTTP GET - response](#)

10.7 SOAP - PARAMETERS

SOAP interface Method: SearchCity

Text	mandatory; search text								
PagingType	<p>optional; paging type Default value: autodetection by existence of parameters</p> <ol style="list-style-type: none"> 7. If given at least one of parameters <i>PageNumber</i> - <i>PageSize</i>, value 1 is used 8. If given at least one of parameters <i>RecordFrom</i> - <i>RecordTo</i>, value 2 is used 9. In all other cases value 3 is used <p>Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters <i>PageSize</i> and <i>PageNumber</i></td> </tr> <tr> <td>2</td> <td> <p>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>. Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</p> </td> </tr> <tr> <td>3</td> <td> <p>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>. Unlike previous type this returns a flag of next page availability.</p> </td> </tr> </table>	1	paging by pages; for further setting use parameters <i>PageSize</i> and <i>PageNumber</i>	2	<p>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>. Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</p>	3	<p>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>. Unlike previous type this returns a flag of next page availability.</p>		
1	paging by pages; for further setting use parameters <i>PageSize</i> and <i>PageNumber</i>								
2	<p>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>. Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</p>								
3	<p>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>. Unlike previous type this returns a flag of next page availability.</p>								
RecordFrom	<p>optional; first required record (records are numbered from 1) Default value: 1</p>								
RecordTo	<p>optional; last required record (records are numbered from 1) Default value: 10</p>								
PageSize	<p>optional; page size (number of records per page) Default value: 10</p>								
PageNumber	<p>optional; number of the required page (pages are numbered from 1) Default value: 1</p>								
Offset	<p>optional; number of skipped records Default value: 0</p>								
Count	<p>optional; number of required records Default value: 10</p>								
OutputProjection	<p>optional; projection of output coordinates Default value: WGS-84</p>								
OutputPosition	<p>optional; required coordinate format definition Default value: 1 Allowed values:</p> <table border="1"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form
0	Output contains no coordinates								
1	Output coordinates in structure								
2	Output coordinates in text form								
3	Output coordinates in both - structure and text - form								
AllowedCountries	<p>optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes</p>								
CityNormalization	<p>optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values:</p> <table border="1"> <tr> <td>0</td> <td>Off</td> </tr> <tr> <td>1</td> <td>On</td> </tr> </table>	0	Off	1	On				
0	Off								
1	On								

ResultFields	optional; semicolon-separated list of required special fields in output Allowed values:	
	*	All of the following values
	lvl	Result level
	ctryisoa2	Country ISO 3166-1 alpha 2 code
	ctryisoa3	Country ISO 3166-1 alpha 3 code
	ctryison	Country ISO 3166-1 numeric code
	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)
	ctrydescrcz	Full country name in Czech language
	ctrydescrcz	Abbreviated country name in Czech language
	ctrydescren	Full country name in English language
	ctrydescren	Abbreviated country name in English language
	stdescr	State/region etc. name (meaning may vary)
	staln	Name of administrative level 2 (state, region, federal republic etc.)
	ctydescr	County name etc. (meaning may vary)
	ctyaln	Name of administrative level 3 (e.g. county)
	citydescr	City name
	cityaln	Name of administrative level 4 (city, city part etc.)
	cityispart	Flag indicating whether city is a city part
	cityptdescr	City part name
	cityptaln	Name of administrative level (city part)
	pcitydescr	Parent city name
	pcityaln	Name of administrative level (parent city)
	strdescr	Street name
	hndescr	House number
	hnpost	Post code
	hnruian	RUIAN address code (for Czech addresses only)
	hnd	House number part - descriptive number
	hno	House number part - orientation number
	hnreg	House number part - registration number
	hnrepl	House number part - replacement number
realsearchvalues	Real values used for search	
AllowNonLatinOutput	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values:	
	1	Allowed
	2	Disabled
	3	Allowed only if non-latin alfabet in input text is used
DefaultCountry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes	
AdminLevelNameLang	optional; language of administrative levels name Default value: CZE Allowed values:	
	CZE	Czech
	ENG	English

	DEF	Country's default language				
ReferencePoint	optional; reference geographic point used for sorting of first X found results by the distance from this point ascending Point is defined as a string using following format: [projection;]partA;partB[;partN...] where:	<table border="1"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA partB</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified</td> </tr> </table>	projection	Optional projection name. Default value: WGS-84	partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified
projection	Optional projection name. Default value: WGS-84					
partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified					
ParentIDsCountry	optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)	Example: WGS-84;50;15				
ParentIDsState	optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)					
ParentIDsCounty	optional; pipe („ “) separated list of administrative level 3 (counties etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 3 search (counties etc.) or Hint for administrative level 3 search (counties etc.)					
User	optional; user name to access the service (if authorization is used)					
Password	optional; password to access the service (if authorization is used)					
ReqID	optional; used to transfer any value from input to output of the service					

10.8 SOAP - RESPONSE

Response is identical to response of „Line address search“ (see [SOAP - response](#))

11 POST CODE SEARCH

11.1 HTTP GET - PARAMETERS

ver	mandatory; interface version Fixed value: 4								
cmd	mandatory; method name Fixed value: „search_postcode“								
text	mandatory; search text								
pgt	optional; paging type Default value: autodetection by existence of parameters 10. If given at least one of parameters <i>pgn</i> - <i>pgs</i> , value 1 is used 11. If given at least one of parameters <i>from</i> - <i>to</i> , value 2 is used 12. In all other cases value 3 is used Allowed values: <table border="1"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i></td> </tr> <tr> <td>2</td> <td>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>. Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</td> </tr> <tr> <td>3</td> <td>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>. Unlike previous type this returns a flag of next page availability.</td> </tr> </table>	1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>	2	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!	3	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Unlike previous type this returns a flag of next page availability.		
1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>								
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3	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Unlike previous type this returns a flag of next page availability.								
from	optional; first required record (records are numbered from 1) Default value: 1								
to	optional; last required record (records are numbered from 1) Default value: 10								
pgs	optional; page size (number of records per page) Default value: 10								
pgn	optional; number of the required page (pages are numbered from 1) Default value: 1								
offset	optional; number of skipped records Default value: 0								
count	optional; number of required records Default value: 10								
outproj	optional; projection of output coordinates Default value: WGS-84								
outpos	optional; required coordinate format definition Default value: 1 Allowed values: <table border="1"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form
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1	Output coordinates in structure								
2	Output coordinates in text form								
3	Output coordinates in both - structure and text - form								
acountry	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes								
citynorm	optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values:								

	0	Off																																																												
	1	On																																																												
resfields	<p>optional; semicolon-separated list of required special fields in output Allowed values:</p> <table border="1"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>lvl</td> <td>Result level</td> </tr> <tr> <td>ctryisoa2</td> <td>Country ISO 3166-1 alpha 2 code</td> </tr> <tr> <td>ctryisoa3</td> <td>Country ISO 3166-1 alpha 3 code</td> </tr> <tr> <td>ctryison</td> <td>Country ISO 3166-1 numeric code</td> </tr> <tr> <td>ctryivrc</td> <td>Country code used for vehicle licence plates (international vehicle registration code)</td> </tr> <tr> <td>ctrydescrcz</td> <td>Full country name in Czech language</td> </tr> <tr> <td>ctrydescrcz</td> <td>Abbreviated country name in Czech language</td> </tr> <tr> <td>ctrydescren</td> <td>Full country name in English language</td> </tr> <tr> <td>ctrydescren</td> <td>Abbreviated country name in English language</td> </tr> <tr> <td>stdescr</td> <td>State/region etc. name (meaning may vary)</td> </tr> <tr> <td>staln</td> <td>Name of administrative level 2 (state, region, federal republic etc.)</td> </tr> <tr> <td>ctydescr</td> <td>County name etc. (meaning may vary)</td> </tr> <tr> <td>ctyaln</td> <td>Name of administrative level 3 (e.g. county)</td> </tr> <tr> <td>citydescr</td> <td>City name</td> </tr> <tr> <td>cityaln</td> <td>Name of administrative level 4 (city, city part etc.)</td> </tr> <tr> <td>cityispart</td> <td>Flag indicating whether city is a city part</td> </tr> <tr> <td>cityptdescr</td> <td>City part name</td> </tr> <tr> <td>cityptaln</td> <td>Name of administrative level (city part)</td> </tr> <tr> <td>pcitydescr</td> <td>Parent city name</td> </tr> <tr> <td>pcityaln</td> <td>Name of administrative level (parent city)</td> </tr> <tr> <td>strdescr</td> <td>Street name</td> </tr> <tr> <td>hndescr</td> <td>House number</td> </tr> <tr> <td>hnpost</td> <td>Post code</td> </tr> <tr> <td>hnruian</td> <td>RUIAN address code (for Czech addresses only)</td> </tr> <tr> <td>hnd</td> <td>House number part - descriptive number</td> </tr> <tr> <td>hno</td> <td>House number part - orientation number</td> </tr> <tr> <td>hnreg</td> <td>House number part - registration number</td> </tr> <tr> <td>hnrepl</td> <td>House number part - replacement number</td> </tr> <tr> <td>realsearchvalues</td> <td>Real values used for search</td> </tr> </table>		*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code	ctryisoa3	Country ISO 3166-1 alpha 3 code	ctryison	Country ISO 3166-1 numeric code	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)	ctrydescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrydescren	Full country name in English language	ctrydescren	Abbreviated country name in English language	stdescr	State/region etc. name (meaning may vary)	staln	Name of administrative level 2 (state, region, federal republic etc.)	ctydescr	County name etc. (meaning may vary)	ctyaln	Name of administrative level 3 (e.g. county)	citydescr	City name	cityaln	Name of administrative level 4 (city, city part etc.)	cityispart	Flag indicating whether city is a city part	cityptdescr	City part name	cityptaln	Name of administrative level (city part)	pcitydescr	Parent city name	pcityaln	Name of administrative level (parent city)	strdescr	Street name	hndescr	House number	hnpost	Post code	hnruian	RUIAN address code (for Czech addresses only)	hnd	House number part - descriptive number	hno	House number part - orientation number	hnreg	House number part - registration number	hnrepl	House number part - replacement number	realsearchvalues	Real values used for search
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defcntry	<p>optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes</p>																																																													
alnlng	<p>optional; language of administrative levels name Default value: CZE Allowed values:</p>																																																													

	CZE	Czech				
	ENG	English				
	DEF	Country's default language				
refpt	<p>optional; reference geographic point used for sorting of first X found results by the distance from this point ascending Point is defined as a string using following format: [projection;]partA;partB[;partN...] where:</p> <table border="1"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA partB</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified</td> </tr> </table> <p>Example: WGS-84;50;15</p>		projection	Optional projection name. Default value: WGS-84	partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified
projection	Optional projection name. Default value: WGS-84					
partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified					
pids_country	<p>optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)</p>					
pids_state	<p>optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)</p>					
pids_county	<p>optional; pipe („ “) separated list of administrative level 3 (counties etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 3 search (counties etc.) or Hint for administrative level 3 search (counties etc.)</p>					
pids_city	<p>optional; pipe („ “) separated list of city record IDs Note: ID must be passed in the same form that is returned by calling service's functions City and city part search or Hint for city and city part search</p>					
auser	optional; user name to access the service (if authorization is used)					
apass	optional; password to access the service (if authorization is used)					
reqid	optional; used to transfer any value from input to output of the service					
output	<p>optional; output type Default value: xml Allowed values:</p> <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table> <p>Notice: In case of passing unsupported value the service returns HTTP status 400</p>		xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.	js	Output is JavaScript object
xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.					
js	Output is JavaScript object					
callback	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called					

11.2 HTTP GET - RESPONSE

Response is identical to response of „Line address search“ (see [HTTP GET - response](#))

11.3 HTTP POST FORM - PARAMETERS

see [HTTP GET - parameters](#)

11.4 HTTP POST FORM - RESPONSE

see [HTTP GET - response](#)

11.5 HTTP POST XML - PARAMETERS

11.5.1 URL PARAMETERS

ver	mandatory; interface version Fixed value: 4
cmd	mandatory; method name Fixed value: „search_postcode“

11.5.2 REQUEST BODY

<options>	
<text>	mandatory; search text
<pgt>	optional; paging type Default value: autodetection by existence of parameters 10. If given at least one of parameters <i>pgn</i> - <i>pgs</i> , value 1 is used 11. If given at least one of parameters <i>from</i> - <i>to</i> , value 2 is used 12. In all other cases value 3 is used Allowed values:
1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>
2	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!
3	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Unlike previous type this returns a flag of next page availability.
<from>	optional; first required record (records are numbered from 1) Default value: 1
<to>	optional; last required record (records are numbered from 1) Default value: 10
<pgs>	optional; page size (number of records per page) Default value: 10
<pgn>	optional; number of the required page (pages are numbered from 1) Default value: 1
<offset>	optional; number of skipped records Default value: 0
<count>	optional; number of required records Default value: 10
<outproj>	optional; projection of output coordinates Default value: WGS-84

<outpos>	<p>optional; required coordinate format definition Default value: 1 Allowed values:</p> <table border="1"> <tr><td>0</td><td>Output contains no coordinates</td></tr> <tr><td>1</td><td>Output coordinates in structure</td></tr> <tr><td>2</td><td>Output coordinates in text form</td></tr> <tr><td>3</td><td>Output coordinates in both - structure and text - form</td></tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form																																																				
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<acountry>	<p>optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes</p>																																																												
<citynorm>	<p>optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values:</p> <table border="1"> <tr><td>0</td><td>Off</td></tr> <tr><td>1</td><td>On</td></tr> </table>	0	Off	1	On																																																								
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<nonlatout>	<p>optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values:</p> <table border="1" data-bbox="438 477 1430 577"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
<defcntry>	<p>optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes</p>						
<alnlang>	<p>optional; language of administrative levels name Default value: CZE Allowed values:</p> <table border="1" data-bbox="438 813 1430 913"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
<refpt>	<p>optional; reference geographic point used for sorting of first X found results by the distance from thie point ascending Point is defined as a string using following format: [projection;]partA;partB[;partN...] where:</p> <table border="1" data-bbox="438 1048 1430 1182"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA partB</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified</td> </tr> </table> <p>Example: WGS-84;50;15</p>	projection	Optional projection name. Default value: WGS-84	partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified		
projection	Optional projection name. Default value: WGS-84						
partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified						
<pids_country>	<p>optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)</p>						
<pids_state>	<p>optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)</p>						
<pids_county>	<p>optional; pipe („ “) separated list of administrative level 3 (counties etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 3 search (counties etc.) or Hint for administrative level 3 search (counties etc.)</p>						
<pids_city>	<p>optional; pipe („ “) separated list of city record IDs Note: ID must be passed in the same form that is returned by calling service's functions City and city part search or Hint for city and city part search</p>						
<auser>	<p>optional; user name to access the service (if authorization is used)</p>						
<apass>	<p>optional; password to access the service (if authorization is used)</p>						
<reqid>	<p>optional; used to transfer any value from input to output of the service</p>						
<output>	<p>optional; output type Default value: xml Allowed values:</p>						

	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.
	js	Output is JavaScript object
	Notice: In case of passing unsupported value the service returns HTTP status 400	
<callback>	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called	
</options>		

11.6 HTTP POST XML - RESPONSE

see [HTTP GET - response](#)

11.7 SOAP - PARAMETERS

SOAP interface Method: SearchPostCode

Text	mandatory; search text						
PagingType	<p>optional; paging type</p> <p>Default value: autodetection by existence of parameters</p> <p>10. If given at least one of parameters <i>PageNumber</i> - <i>PageSize</i>, value 1 is used</p> <p>11. If given at least one of parameters <i>RecordFrom</i> - <i>RecordTo</i>, value 2 is used</p> <p>12. In all other cases value 3 is used</p> <p>Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters <i>PageSize</i> and <i>PageNumber</i></td> </tr> <tr> <td>2</td> <td> <p>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>.</p> <p>Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</p> </td> </tr> <tr> <td>3</td> <td> <p>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>.</p> <p>Unlike previous type this returns a flag of next page availability.</p> </td> </tr> </table>	1	paging by pages; for further setting use parameters <i>PageSize</i> and <i>PageNumber</i>	2	<p>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>.</p> <p>Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</p>	3	<p>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>.</p> <p>Unlike previous type this returns a flag of next page availability.</p>
1	paging by pages; for further setting use parameters <i>PageSize</i> and <i>PageNumber</i>						
2	<p>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>.</p> <p>Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</p>						
3	<p>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>.</p> <p>Unlike previous type this returns a flag of next page availability.</p>						
RecordFrom	<p>optional; first required record (records are numbered from 1)</p> <p>Default value: 1</p>						
RecordTo	<p>optional; last required record (records are numbered from 1)</p> <p>Default value: 10</p>						
PageSize	<p>optional; page size (number of records per page)</p> <p>Default value: 10</p>						
PageNumber	<p>optional; number of the required page (pages are numbered from 1)</p> <p>Default value: 1</p>						
Offset	<p>optional; number of skipped records</p> <p>Default value: 0</p>						
Count	<p>optional; number of required records</p> <p>Default value: 10</p>						
OutputProjection	<p>optional; projection of output coordinates</p> <p>Default value: WGS-84</p>						

OutputPosition	<p>optional; required coordinate format definition Default value: 1 Allowed values:</p> <table border="1"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form																																																				
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1	Output coordinates in structure																																																												
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3	Output coordinates in both - structure and text - form																																																												
AllowedCountries	<p>optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes</p>																																																												
CityNormalization	<p>optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values:</p> <table border="1"> <tr> <td>0</td> <td>Off</td> </tr> <tr> <td>1</td> <td>On</td> </tr> </table>	0	Off	1	On																																																								
0	Off																																																												
1	On																																																												
ResultFields	<p>optional; semicolon-separated list of required special fields in output Allowed values:</p> <table border="1"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>lvl</td> <td>Result level</td> </tr> <tr> <td>ctryisoa2</td> <td>Country ISO 3166-1 alpha 2 code</td> </tr> <tr> <td>ctryisoa3</td> <td>Country ISO 3166-1 alpha 3 code</td> </tr> <tr> <td>ctryison</td> <td>Country ISO 3166-1 numeric code</td> </tr> <tr> <td>ctryivrc</td> <td>Country code used for vehicle licence plates (international vehicle registration code)</td> </tr> <tr> <td>ctrydescrcz</td> <td>Full country name in Czech language</td> </tr> <tr> <td>ctrydescrcz</td> <td>Abbreviated country name in Czech language</td> </tr> <tr> <td>ctrydescren</td> <td>Full country name in English language</td> </tr> <tr> <td>ctrydescren</td> <td>Abbreviated country name in English language</td> </tr> <tr> <td>stdescr</td> <td>State/region etc. name (meaning may vary)</td> </tr> <tr> <td>staln</td> <td>Name of administrative level 2 (state, region, federal republic etc.)</td> </tr> <tr> <td>ctydescr</td> <td>County name etc. (meaning may vary)</td> </tr> <tr> <td>ctyaln</td> <td>Name of administrative level 3 (e.g. county)</td> </tr> <tr> <td>citydescr</td> <td>City name</td> </tr> <tr> <td>cityaln</td> <td>Name of administrative level 4 (city, city part etc.)</td> </tr> <tr> <td>cityispart</td> <td>Flag indicating whether city is a city part</td> </tr> <tr> <td>cityptdescr</td> <td>City part name</td> </tr> <tr> <td>cityptaln</td> <td>Name of administrative level (city part)</td> </tr> <tr> <td>pcitydescr</td> <td>Parent city name</td> </tr> <tr> <td>pcityaln</td> <td>Name of administrative level (parent city)</td> </tr> <tr> <td>strdescr</td> <td>Street name</td> </tr> <tr> <td>hnddescr</td> <td>House number</td> </tr> <tr> <td>hnpost</td> <td>Post code</td> </tr> <tr> <td>hnruian</td> <td>RUIAN address code (for Czech addresses only)</td> </tr> <tr> <td>hnd</td> <td>House number part - descriptive number</td> </tr> <tr> <td>hno</td> <td>House number part - orientation number</td> </tr> <tr> <td>hnreg</td> <td>House number part - registration number</td> </tr> <tr> <td>hnrepl</td> <td>House number part - replacement number</td> </tr> <tr> <td>realsearchvalues</td> <td>Real values used for search</td> </tr> </table>	*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code	ctryisoa3	Country ISO 3166-1 alpha 3 code	ctryison	Country ISO 3166-1 numeric code	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)	ctrydescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrydescren	Full country name in English language	ctrydescren	Abbreviated country name in English language	stdescr	State/region etc. name (meaning may vary)	staln	Name of administrative level 2 (state, region, federal republic etc.)	ctydescr	County name etc. (meaning may vary)	ctyaln	Name of administrative level 3 (e.g. county)	citydescr	City name	cityaln	Name of administrative level 4 (city, city part etc.)	cityispart	Flag indicating whether city is a city part	cityptdescr	City part name	cityptaln	Name of administrative level (city part)	pcitydescr	Parent city name	pcityaln	Name of administrative level (parent city)	strdescr	Street name	hnddescr	House number	hnpost	Post code	hnruian	RUIAN address code (for Czech addresses only)	hnd	House number part - descriptive number	hno	House number part - orientation number	hnreg	House number part - registration number	hnrepl	House number part - replacement number	realsearchvalues	Real values used for search
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AllowNonLatinOutput	<p>optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.)</p> <p>Default value: 3</p> <p>Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
DefaultCountry	<p>optional; default country (if search result is different from default country, abbreviation of the particular country is included in output)</p> <p>Default value: CZE</p> <p>Allowed values: ISO 3166-1 alpha 3 codes</p>						
AdminLevelNameLang	<p>optional; language of administrative levels name</p> <p>Default value: CZE</p> <p>Allowed values:</p> <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
ReferencePoint	<p>optional; reference geographic point used for sorting of first X found results by the distance from this point ascending</p> <p>Point is defined as a string using following format: [projection;]partA;partB[;partN...]</p> <p>where:</p> <table border="1"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA partB</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified</td> </tr> </table> <p>Example: WGS-84;50;15</p>	projection	Optional projection name. Default value: WGS-84	partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified		
projection	Optional projection name. Default value: WGS-84						
partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified						
ParentIDsCountry	<p>optional; pipe („ “) separated list of administrative level 1 (countries) record IDs</p> <p>Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)</p>						
ParentIDsState	<p>optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs</p> <p>Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)</p>						
ParentIDsCounty	<p>optional; pipe („ “) separated list of administrative level 3 (counties etc.) record IDs</p> <p>Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 3 search (counties etc.) or Hint for administrative level 3 search (counties etc.)</p>						
ParentIDsCity	<p>optional; pipe („ “) separated list of city record IDs</p> <p>Note: ID must be passed in the same form that is returned by calling service's functions City and city part search or Hint for city and city part search</p>						
User	optional; user name to access the service (if authorization is used)						
Password	optional; password to access the service (if authorization is used)						
ReqID	optional; used to transfer any value from input to output of the service						

11.8 SOAP - RESPONSE



Position s.r.o.

Londýnská 665/45, 120 00 Praha 2

<http://www.position.cz>

Response is identical to response of „Line address search“ (see *SOAP - response*)

12 STREET SEARCH

12.1 HTTP GET - PARAMETERS

ver	mandatory; interface version Fixed value: 4								
cmd	mandatory; method name Fixed value: „search_street“								
text	mandatory; search text								
pgt	optional; paging type Default value: autodetection by existence of parameters 13. If given at least one of parameters <i>pgn</i> - <i>pgs</i> , value 1 is used 14. If given at least one of parameters <i>from</i> - <i>to</i> , value 2 is used 15. In all other cases value 3 is used Allowed values: <table border="1" data-bbox="319 896 1404 1097"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i></td> </tr> <tr> <td>2</td> <td>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>. Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</td> </tr> <tr> <td>3</td> <td>paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i>. Unlike previous type this returns a flag of next page availability.</td> </tr> </table>	1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>	2	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!	3	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Unlike previous type this returns a flag of next page availability.		
1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>								
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3	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Unlike previous type this returns a flag of next page availability.								
from	optional; first required record (records are numbered from 1) Default value: 1								
to	optional; last required record (records are numbered from 1) Default value: 10								
pgs	optional; page size (number of records per page) Default value: 10								
pgn	optional; number of the required page (pages are numbered from 1) Default value: 1								
offset	optional; number of skipped records Default value: 0								
count	optional; number of required records Default value: 10								
outproj	optional; projection of output coordinates Default value: WGS-84								
outpos	optional; required coordinate format definition Default value: 1 Allowed values: <table border="1" data-bbox="319 1657 1404 1803"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form
0	Output contains no coordinates								
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2	Output coordinates in text form								
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acountry	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes								
citynorm	optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values:								

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resfields	<p>optional; semicolon-separated list of required special fields in output Allowed values:</p> <table border="1"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>lvl</td> <td>Result level</td> </tr> <tr> <td>ctryisoa2</td> <td>Country ISO 3166-1 alpha 2 code</td> </tr> <tr> <td>ctryisoa3</td> <td>Country ISO 3166-1 alpha 3 code</td> </tr> <tr> <td>ctryison</td> <td>Country ISO 3166-1 numeric code</td> </tr> <tr> <td>ctryivrc</td> <td>Country code used for vehicle licence plates (international vehicle registration code)</td> </tr> <tr> <td>ctrysdscrcz</td> <td>Full country name in Czech language</td> </tr> <tr> <td>ctrydscrcz</td> <td>Abbreviated country name in Czech language</td> </tr> <tr> <td>ctrysdscren</td> <td>Full country name in English language</td> </tr> <tr> <td>ctrydscren</td> <td>Abbreviated country name in English language</td> </tr> <tr> <td>stdescr</td> <td>State/region etc. name (meaning may vary)</td> </tr> <tr> <td>staln</td> <td>Name of administrative level 2 (state, region, federal republic etc.)</td> </tr> <tr> <td>ctydescr</td> <td>County name etc. (meaning may vary)</td> </tr> <tr> <td>ctyaln</td> <td>Name of administrative level 3 (e.g. county)</td> </tr> <tr> <td>citydescr</td> <td>City name</td> </tr> <tr> <td>cityaln</td> <td>Name of administrative level 4 (city, city part etc.)</td> </tr> <tr> <td>cityispart</td> <td>Flag indicating whether city is a city part</td> </tr> <tr> <td>cityptdescr</td> <td>City part name</td> </tr> <tr> <td>cityptaln</td> <td>Name of administrative level (city part)</td> </tr> <tr> <td>pcitydescr</td> <td>Parent city name</td> </tr> <tr> <td>pcityaln</td> <td>Name of administrative level (parent city)</td> </tr> <tr> <td>strdescr</td> <td>Street name</td> </tr> <tr> <td>hndescr</td> <td>House number</td> </tr> <tr> <td>hnpost</td> <td>Post code</td> </tr> <tr> <td>hnruian</td> <td>RUIAN address code (for Czech addresses only)</td> </tr> <tr> <td>hnd</td> <td>House number part - descriptive number</td> </tr> <tr> <td>hno</td> <td>House number part - orientation number</td> </tr> <tr> <td>hnreg</td> <td>House number part - registration number</td> </tr> <tr> <td>hnrepl</td> <td>House number part - replacement number</td> </tr> <tr> <td>realsearchvalues</td> <td>Real values used for search</td> </tr> </table>		*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code	ctryisoa3	Country ISO 3166-1 alpha 3 code	ctryison	Country ISO 3166-1 numeric code	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)	ctrysdscrcz	Full country name in Czech language	ctrydscrcz	Abbreviated country name in Czech language	ctrysdscren	Full country name in English language	ctrydscren	Abbreviated country name in English language	stdescr	State/region etc. name (meaning may vary)	staln	Name of administrative level 2 (state, region, federal republic etc.)	ctydescr	County name etc. (meaning may vary)	ctyaln	Name of administrative level 3 (e.g. county)	citydescr	City name	cityaln	Name of administrative level 4 (city, city part etc.)	cityispart	Flag indicating whether city is a city part	cityptdescr	City part name	cityptaln	Name of administrative level (city part)	pcitydescr	Parent city name	pcityaln	Name of administrative level (parent city)	strdescr	Street name	hndescr	House number	hnpost	Post code	hnruian	RUIAN address code (for Czech addresses only)	hnd	House number part - descriptive number	hno	House number part - orientation number	hnreg	House number part - registration number	hnrepl	House number part - replacement number	realsearchvalues	Real values used for search
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nonlatout	<p>optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>		1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used																																																						
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3	Allowed only if non-latin alfabet in input text is used																																																													
defcntry	<p>optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes</p>																																																													
alnlng	<p>optional; language of administrative levels name Default value: CZE Allowed values:</p>																																																													

	CZE	Czech						
	ENG	English						
	DEF	Country's default language						
refpt	<p>optional; reference geographic point used for sorting of first X found results by the distance from this point ascending Point is defined as a string using following format: [projection;]partA;partB[;partN...] where:</p> <table border="1"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude</td> </tr> <tr> <td>partB</td> <td>and longitude specified</td> </tr> </table> <p>Example: WGS-84;50;15</p>		projection	Optional projection name. Default value: WGS-84	partA	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude	partB	and longitude specified
projection	Optional projection name. Default value: WGS-84							
partA	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude							
partB	and longitude specified							
pids_country	<p>optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)</p>							
pids_state	<p>optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)</p>							
pids_county	<p>optional; pipe („ “) separated list of administrative level 3 (counties etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 3 search (counties etc.) or Hint for administrative level 3 search (counties etc.)</p>							
pids_city	<p>optional; pipe („ “) separated list of city record IDs Note: ID must be passed in the same form that is returned by calling service's functions City and city part search or Hint for city and city part search</p>							
auser	optional; user name to access the service (if authorization is used)							
apass	optional; password to access the service (if authorization is used)							
reqid	optional; used to transfer any value from input to output of the service							
output	<p>optional; output type Default value: xml Allowed values:</p> <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table> <p>Notice: In case of passing unsupported value the service returns HTTP status 400</p>		xml	Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.	js	Output is JavaScript object		
xml	Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.							
js	Output is JavaScript object							
callback	optional, makes sense only when using parameter output=js ; name of callback function to be called							

12.2 HTTP GET - RESPONSE

Response is identical to response of „Line address search“ (see [HTTP GET - response](#))

12.3 HTTP POST FORM - PARAMETERS

see [HTTP GET - parameters](#)

12.4 HTTP POST FORM - RESPONSE

see [HTTP GET - response](#)

12.5 HTTP POST XML - PARAMETERS

12.5.1 URL PARAMETERS

ver	mandatory; interface version Fixed value: 4
cmd	mandatory; method name Fixed value: „search_street“

12.5.2 REQUEST BODY

<options>	
<text>	mandatory; search text
<pgt>	optional; paging type Default value: autodetection by existence of parameters 13. If given at least one of parameters <i>pgn</i> - <i>pgs</i> , value 1 is used 14. If given at least one of parameters <i>from</i> - <i>to</i> , value 2 is used 15. In all other cases value 3 is used Allowed values:
1	paging by pages; for further setting use parameters <i>pgs</i> and <i>pgn</i>
2	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!
3	paging by records; for further setting use a pair of parameters <i>from</i> - <i>to</i> or <i>offset</i> - <i>count</i> . Unlike previous type this returns a flag of next page availability.
<from>	optional; first required record (records are numbered from 1) Default value: 1
<to>	optional; last required record (records are numbered from 1) Default value: 10
<pgs>	optional; page size (number of records per page) Default value: 10
<pgn>	optional; number of the required page (pages are numbered from 1) Default value: 1
<offset>	optional; number of skipped records Default value: 0
<count>	optional; number of required records Default value: 10
<outproj>	optional; projection of output coordinates Default value: WGS-84

<outpos>	<p>optional; required coordinate format definition Default value: 1 Allowed values:</p> <table border="1"> <tr><td>0</td><td>Output contains no coordinates</td></tr> <tr><td>1</td><td>Output coordinates in structure</td></tr> <tr><td>2</td><td>Output coordinates in text form</td></tr> <tr><td>3</td><td>Output coordinates in both - structure and text - form</td></tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form																																																				
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<acountry>	<p>optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes</p>																																																												
<citynorm>	<p>optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values:</p> <table border="1"> <tr><td>0</td><td>Off</td></tr> <tr><td>1</td><td>On</td></tr> </table>	0	Off	1	On																																																								
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<resfields>	<p>optional; semicolon-separated list of required special fields in output Allowed values:</p> <table border="1"> <tr><td>*</td><td>All of the following values</td></tr> <tr><td>lvl</td><td>Result level</td></tr> <tr><td>ctryisoa2</td><td>Country ISO 3166-1 alpha 2 code</td></tr> <tr><td>ctryisoa3</td><td>Country ISO 3166-1 alpha 3 code</td></tr> <tr><td>ctryison</td><td>Country ISO 3166-1 numeric code</td></tr> <tr><td>ctryivrc</td><td>Country code used for vehicle licence plates (international vehicle registration code)</td></tr> <tr><td>ctrysdscrcz</td><td>Full country name in Czech language</td></tr> <tr><td>ctrydescrcz</td><td>Abbreviated country name in Czech language</td></tr> <tr><td>ctrysdscren</td><td>Full country name in English language</td></tr> <tr><td>ctrydescren</td><td>Abbreviated country name in English language</td></tr> <tr><td>stdescr</td><td>State/region etc. name (meaning may vary)</td></tr> <tr><td>staln</td><td>Name of administrative level 2 (state, region, federal republic etc.)</td></tr> <tr><td>ctydescr</td><td>County name etc. (meaning may vary)</td></tr> <tr><td>ctyaln</td><td>Name of administrative level 3 (e.g. county)</td></tr> <tr><td>citydescr</td><td>City name</td></tr> <tr><td>cityaln</td><td>Name of administrative level 4 (city, city part etc.)</td></tr> <tr><td>cityispart</td><td>Flag indicating whether city is a city part</td></tr> <tr><td>cityptdescr</td><td>City part name</td></tr> <tr><td>cityptaln</td><td>Name of administrative level (city part)</td></tr> <tr><td>pcitydescr</td><td>Parent city name</td></tr> <tr><td>pcityaln</td><td>Name of administrative level (parent city)</td></tr> <tr><td>strdescr</td><td>Street name</td></tr> <tr><td>hndescr</td><td>House number</td></tr> <tr><td>hnpost</td><td>Post code</td></tr> <tr><td>hnruian</td><td>RUIAN address code (for Czech addresses only)</td></tr> <tr><td>hnd</td><td>House number part - descriptive number</td></tr> <tr><td>hno</td><td>House number part - orientation number</td></tr> <tr><td>hnreg</td><td>House number part - registration number</td></tr> <tr><td>hnrepl</td><td>House number part - replacement number</td></tr> <tr><td>realsearchvalues</td><td>Real values used for search</td></tr> </table>	*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code	ctryisoa3	Country ISO 3166-1 alpha 3 code	ctryison	Country ISO 3166-1 numeric code	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)	ctrysdscrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrysdscren	Full country name in English language	ctrydescren	Abbreviated country name in English language	stdescr	State/region etc. name (meaning may vary)	staln	Name of administrative level 2 (state, region, federal republic etc.)	ctydescr	County name etc. (meaning may vary)	ctyaln	Name of administrative level 3 (e.g. county)	citydescr	City name	cityaln	Name of administrative level 4 (city, city part etc.)	cityispart	Flag indicating whether city is a city part	cityptdescr	City part name	cityptaln	Name of administrative level (city part)	pcitydescr	Parent city name	pcityaln	Name of administrative level (parent city)	strdescr	Street name	hndescr	House number	hnpost	Post code	hnruian	RUIAN address code (for Czech addresses only)	hnd	House number part - descriptive number	hno	House number part - orientation number	hnreg	House number part - registration number	hnrepl	House number part - replacement number	realsearchvalues	Real values used for search
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<nonlatout>	<p>optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values:</p> <table border="1" data-bbox="438 477 1428 577"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
<defcntry>	<p>optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes</p>						
<alnlang>	<p>optional; language of administrative levels name Default value: CZE Allowed values:</p> <table border="1" data-bbox="438 813 1428 913"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
<refpt>	<p>optional; reference geographic point used for sorting of first X found results by the distance from thie point ascending Point is defined as a string using following format: [projection;]partA;partB[;partN...] where:</p> <table border="1" data-bbox="438 1048 1428 1182"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA partB</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified</td> </tr> </table> <p>Example: WGS-84;50;15</p>	projection	Optional projection name. Default value: WGS-84	partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified		
projection	Optional projection name. Default value: WGS-84						
partA partB	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be latitude and longitude specified						
<pids_country>	<p>optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)</p>						
<pids_state>	<p>optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)</p>						
<pids_county>	<p>optional; pipe („ “) separated list of administrative level 3 (counties etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 3 search (counties etc.) or Hint for administrative level 3 search (counties etc.)</p>						
<pids_city>	<p>optional; pipe („ “) separated list of city record IDs Note: ID must be passed in the same form that is returned by calling service's functions City and city part search or Hint for city and city part search</p>						
<auser>	<p>optional; user name to access the service (if authorization is used)</p>						
<apass>	<p>optional; password to access the service (if authorization is used)</p>						
<reqid>	<p>optional; used to transfer any value from input to output of the service</p>						
<output>	<p>optional; output type Default value: xml Allowed values:</p>						

	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.
	js	Output is JavaScript object
	Notice: In case of passing unsupported value the service returns HTTP status 400	
<callback>	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called	
</options>		

12.6 HTTP POST XML - RESPONSE

see [HTTP GET - response](#)

12.7 SOAP - PARAMETERS

SOAP interface Method: SearchStreet

Text	mandatory; search text						
PagingType	<p>optional; paging type</p> <p>Default value: autodetection by existence of parameters</p> <p>13. If given at least one of parameters <i>PageNumber</i> - <i>PageSize</i>, value 1 is used</p> <p>14. If given at least one of parameters <i>RecordFrom</i> - <i>RecordTo</i>, value 2 is used</p> <p>15. In all other cases value 3 is used</p> <p>Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>paging by pages; for further setting use parameters <i>PageSize</i> and <i>PageNumber</i></td> </tr> <tr> <td>2</td> <td> <p>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>.</p> <p>Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</p> </td> </tr> <tr> <td>3</td> <td> <p>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>.</p> <p>Unlike previous type this returns a flag of next page availability.</p> </td> </tr> </table>	1	paging by pages; for further setting use parameters <i>PageSize</i> and <i>PageNumber</i>	2	<p>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>.</p> <p>Notice: This paging type doesn't return a flag of next page availability, respectively the value of this flag is always 0!!!</p>	3	<p>paging by records; for further setting use a pair of parameters <i>RecordFrom</i> - <i>RecordTo</i> or <i>Offset</i> - <i>Count</i>.</p> <p>Unlike previous type this returns a flag of next page availability.</p>
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RecordFrom	<p>optional; first required record (records are numbered from 1)</p> <p>Default value: 1</p>						
RecordTo	<p>optional; last required record (records are numbered from 1)</p> <p>Default value: 10</p>						
PageSize	<p>optional; page size (number of records per page)</p> <p>Default value: 10</p>						
PageNumber	<p>optional; number of the required page (pages are numbered from 1)</p> <p>Default value: 1</p>						
Offset	<p>optional; number of skipped records</p> <p>Default value: 0</p>						
Count	<p>optional; number of required records</p> <p>Default value: 10</p>						
OutputProjection	<p>optional; projection of output coordinates</p> <p>Default value: WGS-84</p>						

OutputPosition	<p>optional; required coordinate format definition Default value: 1 Allowed values:</p> <table border="1"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form																																																				
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AllowedCountries	<p>optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes</p>																																																												
CityNormalization	<p>optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values:</p> <table border="1"> <tr> <td>0</td> <td>Off</td> </tr> <tr> <td>1</td> <td>On</td> </tr> </table>	0	Off	1	On																																																								
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ResultFields	<p>optional; semicolon-separated list of required special fields in output Allowed values:</p> <table border="1"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>lvl</td> <td>Result level</td> </tr> <tr> <td>ctryisoa2</td> <td>Country ISO 3166-1 alpha 2 code</td> </tr> <tr> <td>ctryisoa3</td> <td>Country ISO 3166-1 alpha 3 code</td> </tr> <tr> <td>ctryison</td> <td>Country ISO 3166-1 numeric code</td> </tr> <tr> <td>ctryivrc</td> <td>Country code used for vehicle licence plates (international vehicle registration code)</td> </tr> <tr> <td>ctrydescrcz</td> <td>Full country name in Czech language</td> </tr> <tr> <td>ctrydescrcz</td> <td>Abbreviated country name in Czech language</td> </tr> <tr> <td>ctrydescren</td> <td>Full country name in English language</td> </tr> <tr> <td>ctrydescren</td> <td>Abbreviated country name in English language</td> </tr> <tr> <td>stdescr</td> <td>State/region etc. name (meaning may vary)</td> </tr> <tr> <td>staln</td> <td>Name of administrative level 2 (state, region, federal republic etc.)</td> </tr> <tr> <td>ctydescr</td> <td>County name etc. (meaning may vary)</td> </tr> <tr> <td>ctyaln</td> <td>Name of administrative level 3 (e.g. county)</td> </tr> <tr> <td>citydescr</td> <td>City name</td> </tr> <tr> <td>cityaln</td> <td>Name of administrative level 4 (city, city part etc.)</td> </tr> <tr> <td>cityispart</td> <td>Flag indicating whether city is a city part</td> </tr> <tr> <td>cityptdescr</td> <td>City part name</td> </tr> <tr> <td>cityptaln</td> <td>Name of administrative level (city part)</td> </tr> <tr> <td>pcitydescr</td> <td>Parent city name</td> </tr> <tr> <td>pcityaln</td> <td>Name of administrative level (parent city)</td> </tr> <tr> <td>strdescr</td> <td>Street name</td> </tr> <tr> <td>hnddescr</td> <td>House number</td> </tr> <tr> <td>hnpost</td> <td>Post code</td> </tr> <tr> <td>hnruian</td> <td>RUIAN address code (for Czech addresses only)</td> </tr> <tr> <td>hnd</td> <td>House number part - descriptive number</td> </tr> <tr> <td>hno</td> <td>House number part - orientation number</td> </tr> <tr> <td>hnreg</td> <td>House number part - registration number</td> </tr> <tr> <td>hnrepl</td> <td>House number part - replacement number</td> </tr> <tr> <td>realsearchvalues</td> <td>Real values used for search</td> </tr> </table>	*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code	ctryisoa3	Country ISO 3166-1 alpha 3 code	ctryison	Country ISO 3166-1 numeric code	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)	ctrydescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrydescren	Full country name in English language	ctrydescren	Abbreviated country name in English language	stdescr	State/region etc. name (meaning may vary)	staln	Name of administrative level 2 (state, region, federal republic etc.)	ctydescr	County name etc. (meaning may vary)	ctyaln	Name of administrative level 3 (e.g. county)	citydescr	City name	cityaln	Name of administrative level 4 (city, city part etc.)	cityispart	Flag indicating whether city is a city part	cityptdescr	City part name	cityptaln	Name of administrative level (city part)	pcitydescr	Parent city name	pcityaln	Name of administrative level (parent city)	strdescr	Street name	hnddescr	House number	hnpost	Post code	hnruian	RUIAN address code (for Czech addresses only)	hnd	House number part - descriptive number	hno	House number part - orientation number	hnreg	House number part - registration number	hnrepl	House number part - replacement number	realsearchvalues	Real values used for search
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AllowNonLatinOutput	<p>optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
DefaultCountry	<p>optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes</p>						
AdminLevelNameLang	<p>optional; language of administrative levels name Default value: CZE Allowed values:</p> <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
ReferencePoint	<p>optional; reference geographic point used for sorting of first X found results by the distance from this point ascending Point is defined as a string using following format: [projection;]partA;partB[;partN...] where:</p> <table border="1"> <tr> <td>projection</td> <td>Optional projection name. Default value: WGS-84</td> </tr> <tr> <td>partA</td> <td>Parts of projection delimited by semicolon, eg. for WGS-84 there have to be</td> </tr> <tr> <td>partB</td> <td>latitude and longitude specified</td> </tr> </table> <p>Example: WGS-84;50;15</p>	projection	Optional projection name. Default value: WGS-84	partA	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be	partB	latitude and longitude specified
projection	Optional projection name. Default value: WGS-84						
partA	Parts of projection delimited by semicolon, eg. for WGS-84 there have to be						
partB	latitude and longitude specified						
ParentIDsCountry	<p>optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)</p>						
ParentIDsState	<p>optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)</p>						
ParentIDsCounty	<p>optional; pipe („ “) separated list of administrative level 3 (counties etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 3 search (counties etc.) or Hint for administrative level 3 search (counties etc.)</p>						
ParentIDsCity	<p>optional; pipe („ “) separated list of city record IDs Note: ID must be passed in the same form that is returned by calling service's functions City and city part search or Hint for city and city part search</p>						
User	optional; user name to access the service (if authorization is used)						
Password	optional; password to access the service (if authorization is used)						
ReqID	optional; used to transfer any value from input to output of the service						

12.8 SOAP - RESPONSE



Position s.r.o.

Londýnská 665/45, 120 00 Praha 2

<http://www.position.cz>

Response is identical to response of „Line address search“ (see *SOAP - response*)

13 HINT FOR LINE ADDRESS SEARCH

13.1 HTTP GET - PARAMETERS

ver	mandatory; interface version Fixed value: 4						
cmd	mandatory; method name Fixed value: „hint“						
text	mandatory; search text						
count	optional; number of required records Default value: 5 Maximum value: 10						
acountry	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes						
nonlatout	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
defcntry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes						
alnglang	optional; language of administrative levels name Default value: CZE Allowed values: <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
ouser	optional; user name to access the service (if authorization is used)						
apass	optional; password to access the service (if authorization is used)						
reqid	optional; used to transfer any value from input to output of the service						
output	optional; output type Default value: xml Allowed values: <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table> <p>Notice: In case of passing unsupported value the service returns HTTP status 400</p>	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.	js	Output is JavaScript object		
xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.						
js	Output is JavaScript object						
callback	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called						

13.2 HTTP GET - RESPONSE

request	list of input parameters
{	
version	always given; interface version

cmd	always given; method name
reqid	given if <i>reqid</i> parameter is passed in; <i>reqid</i> parameter value
text	always given; <i>text</i> parameter value
count	always given; <i>count</i> parameter value
}	
response	
{	
error	always given; error code Possible values:
	0 Operation finished with no error
	-1 Invalid argument (parameter value, missing parameter etc.)
	-2 Authorization error
	-3 Unsupported method
	-10 Internal error
	-101 No result found
	-102 Search was interrupted
	-103 No more results found (occurs when parameter <i>pgn</i> >1 or parameter <i>from</i> >1 or parameter <i>offset</i> > 0 and no more search results were found)
	-201 No match for an item that is required
	-202 Too many results Solution: Specify more exact text
	-203 No match found for defined contractual restrictions (internal system error)
	-204 No match between defined contractual and user restrictions Solution: Enter only user conditions that are allowed by contract conditions
errormessage	always given; error message
count	given if <i>error</i> =0; number of results in field <i>results</i>
results	given if <i>error</i> =0; results array
[{	
id	always given; record ID
descr	always given; description
searchtext	always given; text, which can be used while calling method "search" (contains no additional information)
}, ...]	
}	

13.3 HTTP POST FORM - PARAMETERS

see [HTTP GET - parameters](#)

13.4 HTTP POST FORM - RESPONSE

see [HTTP GET - response](#)

13.5 HTTP POST XML - PARAMETERS

13.5.1 URL PARAMETERS

ver	mandatory; interface version Fixed value: 4
cmd	mandatory; method name Fixed value: „hint“

13.5.2 REQUEST BODY

<options>							
<text>	mandatory; search text						
<count>	optional; number of required records Default value: 5 Maximum value: 10						
<acountry>	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes						
<nonlatout>	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
<defcntry>	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes						
<alnlang>	optional; language of administrative levels name Default value: CZE Allowed values: <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
<auser>	optional; user name to access the service (if authorization is used)						
<apass>	optional; password to access the service (if authorization is used)						
<reqid>	optional; used to transfer any value from input to output of the service						
<output>	optional; output type Default value: xml Allowed values: <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table> Notice: In case of passing unsupported value the service returns HTTP status 400	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.	js	Output is JavaScript object		
xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.						
js	Output is JavaScript object						
<callback>	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called						
</options>							

13.6 HTTP POST XML - RESPONSE

see [HTTP GET - response](#)

13.7 SOAP - PARAMETERS

SOAP interface method: Hint

Text	mandatory; search text						
Count	optional; number of required records Default value: 5 Maximal value: 10						
AllowedCountries	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes						
AllowNonLatinOutput	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1" data-bbox="422 884 1428 981"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
DefaultCountry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes						
AdminLevelNameLang	optional; language of administrative levels name Default value: CZE Allowed values: <table border="1" data-bbox="422 1220 1428 1317"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
User	optional; user name to access the service (if authorization is used)						
Password	optional; password to access the service (if authorization is used)						
ReqID	optional; used to transfer any value from input to output of the service						

13.8 SOAP - RESPONSE

Request	list of input parameters				
{					
Version	always given; interface version				
ReqID	given if <i>ReqID</i> parameter is passed in; <i>ReqID</i> parameter value				
Text	always given; <i>Text</i> parameter value				
Count	always given; <i>Count</i> parameter value				
}					
Response					
{					
Error	always given; error code Possible values: <table border="1" data-bbox="638 1926 1428 1993"> <tr> <td>0</td> <td>Operation finished with no error</td> </tr> <tr> <td>-1</td> <td>Invalid argument (parameter value, missing parameter etc.)</td> </tr> </table>	0	Operation finished with no error	-1	Invalid argument (parameter value, missing parameter etc.)
0	Operation finished with no error				
-1	Invalid argument (parameter value, missing parameter etc.)				

	-2	Authorization error
	-3	Unsupported method
	-10	Internal error
	-101	No result found
	-102	Search was interrupted
	-103	No more results found (occurs when parameter <i>PageNumber</i> >1 or parameter <i>RecordFrom</i> >1 or parameter <i>Offset</i> > 0 and no more search results were found)
	-201	No match for an item that is required
	-202	Too many results Solution: Specify more exact text
	-203	No match found for defined contractual restrictions (internal system error)
	-204	No match between defined contractual and user restrictions Solution: Enter only user conditions that are allowed by contract conditions
ErrorMessage		always given; error message
Count		given if <i>Error</i> =0; number of results in field <i>Results</i>
Results		given if <i>Error</i> =0; results array
[{		
ID		always given; record ID
Descr		always given; description
SearchText		always given; text, which can be used while calling method "search" (contains no additional information)
}, ...]		
}		

13.9 EXAMPLES

13.9.1 HTTP GET

Request:

<http://services.position.cz/search/?cmd=hint&ver=4&text=praha>

Response:

```
<?xml version="1.0" encoding="UTF-8"?>
<searchresults>
  <request>
    <version>4</version>
    <cmd>hint</cmd>
    <text>praha</text>
    <count>5</count>
  </request>
  <response>
    <error>0</error>
    <errorMessage />
    <count>5</count>
    <results>
      <item>
        <id>city;545981092</id>
        <descr>Praha (okres Hlavní Město Praha)</descr>
```



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<http://www.position.cz>

```
<searchtext>Praha</searchtext>
</item>
<item>
  <id>city;545980538</id>
  <descr>Praha 1 (okres Hlavní Město Praha)</descr>
  <searchtext>Praha 1</searchtext>
</item>
<item>
  <id>city;545980535</id>
  <descr>Praha 10 (okres Hlavní Město Praha)</descr>
  <searchtext>Praha 10</searchtext>
</item>
<item>
  <id>city;1209533700</id>
  <descr>Praha 11 (okres Hlavní Město Praha)</descr>
  <searchtext>Praha 11</searchtext>
</item>
<item>
  <id>city;1209534315</id>
  <descr>Praha 12 (okres Hlavní Město Praha)</descr>
  <searchtext>Praha 12</searchtext>
</item>
</results>
</response>
</searchresults>
```

13.9.2 HTTP POST XML

Request:

<http://services.position.cz/search/?cmd=hint&ver=4>

POST data:

```
<?xml version="1.0" encoding="utf-8"?>
<options>
  <text>praha</text>
</options>
```

Response:

```
<?xml version="1.0" encoding="UTF-8"?>
<searchresults>
  <request>
    <version>4</version>
    <cmd>hint</cmd>
    <text>praha</text>
    <count>5</count>
  </request>
  <response>
    <error>0</error>
    <errormessage />
    <count>5</count>
    <results>
      <item>
        <id>city;545981092</id>
        <descr>Praha (okres Hlavní Město Praha)</descr>
        <searchtext>Praha</searchtext>
```



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```
</item>
<item>
  <id>city;545980538</id>
  <descr>Praha 1 (okres Hlavní Město Praha)</descr>
  <searchtext>Praha 1</searchtext>
</item>
<item>
  <id>city;545980535</id>
  <descr>Praha 10 (okres Hlavní Město Praha)</descr>
  <searchtext>Praha 10</searchtext>
</item>
<item>
  <id>city;1209533700</id>
  <descr>Praha 11 (okres Hlavní Město Praha)</descr>
  <searchtext>Praha 11</searchtext>
</item>
<item>
  <id>city;1209534315</id>
  <descr>Praha 12 (okres Hlavní Město Praha)</descr>
  <searchtext>Praha 12</searchtext>
</item>
</results>
</response>
</searchresults>
```

14 HINT FOR COMPONENT ADDRESS SEARCH

14.1 HTTP GET - PARAMETERS

ver	mandatory; interface version Fixed value: 4						
cmd	mandatory; method name Fixed value: „hint_comp“						
country	optional ¹ ; search text for administrative level 1 (country)						
state	optional ¹ ; search text for administrative level 1 (state, region, federal republic etc.)						
county	optional ¹ ; search text for administrative level 1 (county)						
city	optional ¹ ; search text for city and city part						
postcode	optional ¹ ; search text for post code						
street	optional ¹ ; search text for street						
house_no	optional ¹ ; search text for house number						
count	optional; number of required records Default value: 5 Maximum value: 10						
acountry	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes						
nonlatout	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
defcntry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes						
alnlng	optional; language of administrative levels name Default value: CZE Allowed values: <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
auser	optional; user name to access the service (if authorization is used)						
apass	optional; password to access the service (if authorization is used)						
reqid	optional; used to transfer any value from input to output of the service						
output	optional; output type Default value: xml Allowed values: <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table> <p>Notice: In case of passing unsupported value the service returns HTTP status 400</p>	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.	js	Output is JavaScript object		
xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.						
js	Output is JavaScript object						
callback	optional, makes sense only when using parameter <i>output</i> =js; name of callback function to be called						

¹ At least one of parameters must be filled

14.2 HTTP GET - RESPONSE

request	list of input parameters																								
{																									
version	always given; interface version																								
cmd	always given; method name																								
reqid	given if <i>reqid</i> parameter is passed in; <i>reqid</i> parameter value																								
country	always given; <i>country</i> parameter value																								
state	always given; <i>state</i> parameter value																								
county	always given; <i>county</i> parameter value																								
city	always given; <i>city</i> parameter value																								
postcode	always given; <i>postcode</i> parameter value																								
street	always given; <i>street</i> parameter value																								
housesno	always given; <i>house_no</i> parameter value																								
count	always given; <i>count</i> parameter value																								
}																									
response																									
{																									
error	<p>always given; error code</p> <p>Possible values:</p> <table border="1"> <tr><td>0</td><td>Operation finished with no error</td></tr> <tr><td>-1</td><td>Invalid argument (parameter value, missing parameter etc.)</td></tr> <tr><td>-2</td><td>Authorization error</td></tr> <tr><td>-3</td><td>Unsupported method</td></tr> <tr><td>-10</td><td>Internal error</td></tr> <tr><td>-101</td><td>No result found</td></tr> <tr><td>-102</td><td>Search was interrupted</td></tr> <tr><td>-103</td><td>No more results found (occurs when parameter <i>pgn</i>>1 or parameter <i>from</i>>1 or parameter <i>offset</i>> 0 and no more search results were found)</td></tr> <tr><td>-201</td><td>No match for an item that is required</td></tr> <tr><td>-202</td><td>Too many results Solution: Specify more exact text</td></tr> <tr><td>-203</td><td>No match found for defined contractual restrictions (internal system error)</td></tr> <tr><td>-204</td><td>No match between defined contractual and user restrictions Solution: Enter only user conditions that are allowed by contract conditions</td></tr> </table>	0	Operation finished with no error	-1	Invalid argument (parameter value, missing parameter etc.)	-2	Authorization error	-3	Unsupported method	-10	Internal error	-101	No result found	-102	Search was interrupted	-103	No more results found (occurs when parameter <i>pgn</i> >1 or parameter <i>from</i> >1 or parameter <i>offset</i> > 0 and no more search results were found)	-201	No match for an item that is required	-202	Too many results Solution: Specify more exact text	-203	No match found for defined contractual restrictions (internal system error)	-204	No match between defined contractual and user restrictions Solution: Enter only user conditions that are allowed by contract conditions
0	Operation finished with no error																								
-1	Invalid argument (parameter value, missing parameter etc.)																								
-2	Authorization error																								
-3	Unsupported method																								
-10	Internal error																								
-101	No result found																								
-102	Search was interrupted																								
-103	No more results found (occurs when parameter <i>pgn</i> >1 or parameter <i>from</i> >1 or parameter <i>offset</i> > 0 and no more search results were found)																								
-201	No match for an item that is required																								
-202	Too many results Solution: Specify more exact text																								
-203	No match found for defined contractual restrictions (internal system error)																								
-204	No match between defined contractual and user restrictions Solution: Enter only user conditions that are allowed by contract conditions																								
errormessage	always given; error message																								
count	given if <i>error</i> =0; number of results in field <i>results</i>																								
results	given if <i>error</i> =0; results array																								
[{																									
id	always given; record ID																								
descr	always given; description																								
searchtext	always given; text, which can be used while calling method "search" (contains no additional information)																								



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} , . . .]	
}	

14.3 HTTP POST FORM - PARAMETERS

see [HTTP GET - parameters](#)

14.4 HTTP POST FORM - RESPONSE

see [HTTP GET - response](#)

14.5 HTTP POST XML - PARAMETERS

14.5.1 URL PARAMETERS

ver	mandatory; interface version Fixed value: 4
cmd	mandatory; method name Fixed value: „hint_comp“

14.5.2 REQUEST BODY

<options>	
<country>	optional ¹ ; search text for administrative level 1 (country)
<state>	optional ¹ ; search text for administrative level 1 (state, region, federal republic etc.)
<county>	optional ¹ ; search text for administrative level 1 (county)
<city>	optional ¹ ; search text for city and city part
<postcode>	optional ¹ ; search text for post code
<street>	optional ¹ ; search text for street
<house_no>	optional ¹ ; search text for house number
<count>	optional; number of required records Default value: 5 Maximum value: 10
<acountry>	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes
<nonlatout>	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values:
	1 Allowed
	2 Disabled
	3 Allowed only if non-latin alfabet in input text is used
<defcntry>	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE

	Allowed values: ISO 3166-1 alpha 3 codes						
<alnlang>	optional; language of administrative levels name Default value: CZE Allowed values: <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
<auser>	optional; user name to access the service (if authorization is used)						
<apass>	optional; password to access the service (if authorization is used)						
<reqid>	optional; used to transfer any value from input to output of the service						
<output>	optional; output type Default value: xml Allowed values: <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table>	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.	js	Output is JavaScript object		
xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.						
js	Output is JavaScript object						
<callback>	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called						
</options>							

¹ At least one of parameters must be filled

14.6 HTTP POST XML - RESPONSE

see [HTTP GET - response](#)

14.7 SOAP - PARAMETERS

SOAP interface Method: HintComp

Country	optional ¹ ; search text for administrative level 1 (country)		
State	optional ¹ ; search text for administrative level 1 (state, region, federal republic etc.)		
County	optional ¹ ; search text for administrative level 1 (county)		
City	optional ¹ ; search text for city and city part		
PostCode	optional ¹ ; search text for post code		
Street	optional ¹ ; search text for street		
HouseNo	optional ¹ ; search text for house number		
Count	optional; number of required records Default value: 5 Maximal value: 10		
AllowedCountries	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes		
AllowNonLatinOutput	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> </table>	1	Allowed
1	Allowed		



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	2	Disabled
	3	Allowed only if non-latin alfabet in input text is used
DefaultCountry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes	
AdminLevelNameLang	optional; language of administrative levels name Default value: CZE Allowed values:	
	CZE	Czech
	ENG	English
	DEF	Country's default language
User	optional; user name to access the service (if authorization is used)	
Password	optional; password to access the service (if authorization is used)	
ReqID	optional; used to transfer any value from input to output of the service	

¹ At least one of parameters must be filled

14.8 SOAP - RESPONSE

Request	list of input parameters
{	
Version	always given; interface version
ReqID	given if <i>ReqID</i> parameter is passed in; <i>ReqID</i> parameter value
Country	always given; <i>Country</i> parameter value
State	always given; <i>State</i> parameter value
County	always given; <i>County</i> parameter value
City	always given; <i>City</i> parameter value
PostCode	always given; <i>PostCode</i> parameter value
Street	always given; <i>Street</i> parameter value
HouseNo	always given; <i>HouseNo</i> parameter value
Count	always given; <i>Count</i> parameter value
}	
Response	
{	
Error	always given; error code Possible values:
	0 Operation finished with no error
	-1 Invalid argument (parameter value, missing parameter etc.)
	-2 Authorization error
	-3 Unsupported method
	-10 Internal error
	-101 No result found
	-102 Search was interrupted
	-103 No more results found (occurs when parameter <i>PageNumber</i> >1 or parameter <i>RecordFrom</i> >1 or parameter <i>Offset</i> > 0 and no more search results were found)
	-201 No match for an item that is required

	-202	Too many results Solution: Specify more exact text
	-203	No match found for defined contractual restrictions (internal system error)
	-204	No match between defined contractual and user restrictions Solution: Enter only user conditions that are allowed by contract conditions
ErrorMessage		always given; error message
Count		given if <i>Error=0</i> ; number of results in field <i>Results</i>
Results		given if <i>Error=0</i> ; results array
[{		
ID		always given; record ID
Descr		always given; description
SearchText		always given; text, which can be used while calling method "search" (contains no additional information)
}, ...]		
}		

14.9 EXAMPLES

14.9.1 HTTP GET

Request:

http://services.position.cz/search/?cmd=hint_comp&ver=4&country=CZE&city=prah

Response:

```
<?xml version="1.0" encoding="UTF-8"?>
<searchresults>
  <request>
    <version>4</version>
    <cmd>hint_comp</cmd>
    <count>5</count>
    <country>CZE</country>
    <state />
    <county />
    <city>prah</city>
    <postcode />
    <street />
    <housetno />
  </request>
  <response>
    <error>0</error>
    <errorMessage />
    <count>5</count>
    <results>
      <item>
        <id>city;545981092</id>
        <descr>Praha (okres Hlavní Město Praha)</descr>
        <searchtext>Praha</searchtext>
      </item>
      <item>
        <id>city;545980538</id>
```



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```
        <descr>Praha 1 (okres Hlavní Město Praha)</descr>
        <searchtext>Praha 1</searchtext>
    </item>
    <item>
        <id>city;545980535</id>
        <descr>Praha 10 (okres Hlavní Město Praha)</descr>
        <searchtext>Praha 10</searchtext>
    </item>
    <item>
        <id>city;1209533700</id>
        <descr>Praha 11 (okres Hlavní Město Praha)</descr>
        <searchtext>Praha 11</searchtext>
    </item>
    <item>
        <id>city;1209534315</id>
        <descr>Praha 12 (okres Hlavní Město Praha)</descr>
        <searchtext>Praha 12</searchtext>
    </item>
</results>
</response>
</searchresults>
```

14.9.2 HTTP POST XML

Request:

http://services.position.cz/search/?cmd=hint_comp&ver=4

POST data:

```
<?xml version="1.0" encoding="utf-8"?>
<options>
  <country>CZE</country>
  <city>prah</city>
</options>
```

Response:

```
<?xml version="1.0" encoding="UTF-8"?>
<searchresults>
  <request>
    <version>4</version>
    <cmd>hint_comp</cmd>
    <count>5</count>
    <country>CZE</country>
    <state />
    <county />
    <city>prah</city>
    <postcode />
    <street />
    <housetno />
  </request>
  <response>
    <error>0</error>
    <errormessage />
    <count>5</count>
    <results>
      <item>
```



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```
<id>city;545981092</id>
<descr>Praha (okres Hlavní Město Praha)</descr>
<searchtext>Praha</searchtext>
</item>
<item>
  <id>city;545980538</id>
  <descr>Praha 1 (okres Hlavní Město Praha)</descr>
  <searchtext>Praha 1</searchtext>
</item>
<item>
  <id>city;545980535</id>
  <descr>Praha 10 (okres Hlavní Město Praha)</descr>
  <searchtext>Praha 10</searchtext>
</item>
<item>
  <id>city;1209533700</id>
  <descr>Praha 11 (okres Hlavní Město Praha)</descr>
  <searchtext>Praha 11</searchtext>
</item>
<item>
  <id>city;1209534315</id>
  <descr>Praha 12 (okres Hlavní Město Praha)</descr>
  <searchtext>Praha 12</searchtext>
</item>
</results>
</response>
</searchresults>
```



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15 HINT FOR ADMINISTRATIVE LEVEL 1 SEARCH (COUNTRIES)

15.1 HTTP GET - PARAMETERS

Parameters are identical to parameters of "Hint for line address search" (see [HTTP GET - parameters](#))

15.2 HTTP GET - RESPONSE

Response is identical to response of "Hint for line address search" (see [HTTP GET - response](#))

15.3 HTTP POST FORM - PARAMETERS

see [HTTP GET - parameters](#)

15.4 HTTP POST FORM - RESPONSE

see [HTTP GET - response](#)

15.5 HTTP POST XML - PARAMETERS

15.5.1 URL PARAMETERS

ver	mandatory; interface version Fixed value: 4
cmd	mandatory; method name Fixed value: „hint_country“

15.5.2 REQUEST BODY

Request body is identical to request body of "Hint for line address search" (see [Request body](#))

15.6 HTTP POST XML - RESPONSE

see [HTTP GET - response](#)

15.7 SOAP - PARAMETERS

SOAP interface method: HintCountry

Parameters are identical to parameters of "Hint for line address search" (see [SOAP - parameters](#))

15.8 SOAP - RESPONSE

Response is identical to response of "Hint for line address search" (see [SOAP - response](#))

16 HINT FOR ADMINISTRATIVE LEVEL 2 SEARCH (REGIONS, AREAS ETC.)

16.1 HTTP GET - PARAMETERS

ver	mandatory; interface version Fixed value: 4						
cmd	mandatory; method name Fixed value: „hint_state“						
text	mandatory; search text						
count	optional; number of required records Default value: 5 Maximum value: 10						
acountry	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes						
nonlatout	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
defcntry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes						
alng	optional; language of administrative levels name Default value: CZE Allowed values: <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
pids_country	optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)						
ouser	optional; user name to access the service (if authorization is used)						
opass	optional; password to access the service (if authorization is used)						
oreqid	optional; used to transfer any value from input to output of the service						
ooutput	optional; output type Default value: xml Allowed values: <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table> <p>Notice: In case of passing unsupported value the service returns HTTP status 400</p>	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.	js	Output is JavaScript object		
xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.						
js	Output is JavaScript object						
callback	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called						

16.2 HTTP GET - RESPONSE



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Response is identical to response of "Hint for line address search" (see [HTTP GET - response](#))

16.3 HTTP POST FORM - PARAMETERS

see [HTTP GET - parameters](#)

16.4 HTTP POST FORM - RESPONSE

see [HTTP GET - response](#)

16.5 HTTP POST XML - PARAMETERS

16.5.1 URL PARAMETERS

ver	mandatory; interface version Fixed value: 4
cmd	mandatory; method name Fixed value: „hint_state“

16.5.2 REQUEST BODY

<options>							
<text>	mandatory; search text						
<count>	optional; number of required records Default value: 5 Maximum value: 10						
<acountry>	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes						
<nonlatout>	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1"><tr><td>1</td><td>Allowed</td></tr><tr><td>2</td><td>Disabled</td></tr><tr><td>3</td><td>Allowed only if non-latin alfabet in input text is used</td></tr></table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
<defcntry>	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes						
<alnlang>	optional; language of administrative levels name Default value: CZE Allowed values: <table border="1"><tr><td>CZE</td><td>Czech</td></tr><tr><td>ENG</td><td>English</td></tr><tr><td>DEF</td><td>Country's default language</td></tr></table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
<pids_country>	optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)						

<ouser>	optional; user name to access the service (if authorization is used)				
<apass>	optional; password to access the service (if authorization is used)				
<reqid>	optional; used to transfer any value from input to output of the service				
<output>	optional; output type Default value: xml Allowed values: <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table>	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.	js	Output is JavaScript object
xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.				
js	Output is JavaScript object				
<callback>	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called				
</options>					

16.6 HTTP POST XML - RESPONSE

see [HTTP GET - response](#)

16.7 SOAP - PARAMETERS

SOAP interface Method: HintState

Text	mandatory; search text						
Count	optional; number of required records Default value: 5 Maximal value: 10						
AllowedCountries	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes						
AllowNonLatinOutput	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
DefaultCountry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes						
AdminLevelNameLang	optional; language of administrative levels name Default value: CZE Allowed values: <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
ParentIDsCountry	optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search						



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	<i>(countries)</i>
User	optional; user name to access the service (if authorization is used)
Password	optional; password to access the service (if authorization is used)
ReqID	optional; used to transfer any value from input to output of the service

16.8 SOAP - RESPONSE

Response is identical to response of "Hint for line address search" (see [SOAP - response](#))

17 HINT FOR ADMINISTRATIVE LEVEL 3 SEARCH (COUNTIES ETC.)

17.1 HTTP GET - PARAMETERS

ver	mandatory; interface version Fixed value: 4						
cmd	mandatory; method name Fixed value: „hint_county“						
text	mandatory; search text						
count	optional; number of required records Default value: 5 Maximum value: 10						
acountry	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes						
nonlatout	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
defcntry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes						
alnlng	optional; language of administrative levels name Default value: CZE Allowed values: <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
pids_country	optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)						
pids_state	optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)						
auser	optional; user name to access the service (if authorization is used)						
apass	optional; password to access the service (if authorization is used)						
reqid	optional; used to transfer any value from input to output of the service						
output	optional; output type Default value: xml Allowed values: <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table> <p>Notice: In case of passing unsupported value the service returns HTTP status 400</p>	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.	js	Output is JavaScript object		
xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.						
js	Output is JavaScript object						
callback	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called						



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17.2 HTTP GET - RESPONSE

Response is identical to response of "Hint for line address search" (see [HTTP GET - response](#))

17.3 HTTP POST FORM - PARAMETERS

see [HTTP GET - parameters](#)

17.4 HTTP POST FORM - RESPONSE

see [HTTP GET - response](#)

17.5 HTTP POST XML - PARAMETERS

17.5.1 URL PARAMETERS

ver	mandatory; interface version Fixed value: 4
cmd	mandatory; method name Fixed value: „hint_county“

17.5.2 REQUEST BODY

<options>							
<text>	mandatory; search text						
<count>	optional; number of required records Default value: 5 Maximum value: 10						
<acountry>	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes						
<nonlatout>	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1"><tr><td>1</td><td>Allowed</td></tr><tr><td>2</td><td>Disabled</td></tr><tr><td>3</td><td>Allowed only if non-latin alfabet in input text is used</td></tr></table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
<defcntry>	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes						
<alnlang>	optional; language of administrative levels name Default value: CZE Allowed values: <table border="1"><tr><td>CZE</td><td>Czech</td></tr><tr><td>ENG</td><td>English</td></tr><tr><td>DEF</td><td>Country's default language</td></tr></table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
<pids_country>	optional; pipe („ “) separated list of administrative level 1 (countries) record IDs						

	Note: ID must be passed in the same form that is returned by calling service's functions <i>Administrative level 1 search (countries)</i> or <i>Hint for administrative level 1 search (countries)</i>				
<pids_state>	optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions <i>Administrative level 2 search (regions, areas etc.)</i> or <i>Hint for administrative level 2 search (regions, areas etc.)</i>				
<auser>	optional; user name to access the service (if authorization is used)				
<apass>	optional; password to access the service (if authorization is used)				
<reqid>	optional; used to transfer any value from input to output of the service				
<output>	optional; output type Default value: xml Allowed values: <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table>	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.	js	Output is JavaScript object
xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.				
js	Output is JavaScript object				
<callback>	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called				
</options>					

17.6 HTTP POST XML - RESPONSE

see [HTTP GET - response](#)

17.7 SOAP - PARAMETERS

SOAP interface Method: HintCounty

Text	mandatory; search text						
Count	optional; number of required records Default value: 5 Maximal value: 10						
AllowedCountries	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes						
AllowNonLatinOutput	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
DefaultCountry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes						
AdminLevelNameLang	optional; language of administrative levels name Default value: CZE						



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	Allowed values:
	CZE Czech
	ENG English
	DEF Country's default language
ParentIDsCountry	optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)
ParentIDsState	optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)
User	optional; user name to access the service (if authorization is used)
Password	optional; password to access the service (if authorization is used)
ReqID	optional; used to transfer any value from input to output of the service

17.8 SOAP - RESPONSE

Response is identical to response of "Hint for line address search" (see [SOAP - response](#))

18 HINT FOR CITY AND CITY PART SEARCH

18.1 HTTP GET - PARAMETERS

ver	mandatory; interface version Fixed value: 4						
cmd	mandatory; method name Fixed value: „hint_city“						
text	mandatory; search text						
count	optional; number of required records Default value: 5 Maximum value: 10						
acountry	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes						
nonlatout	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
defcntry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes						
alng	optional; language of administrative levels name Default value: CZE Allowed values: <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
pids_country	optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)						
pids_state	optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)						
pids_county	optional; pipe („ “) separated list of administrative level 3 (counties etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 3 search (counties etc.) or Hint for administrative level 3 search (counties etc.)						
ouser	optional; user name to access the service (if authorization is used)						
opass	optional; password to access the service (if authorization is used)						
oreqid	optional; used to transfer any value from input to output of the service						
ooutput	optional; output type Default value: xml Allowed values: <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.</td> </tr> </table>	xml	Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.				
xml	Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.						

	js	Output is JavaScript object
	Notice: In case of passing unsupported value the service returns HTTP status 400	
callback	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called	

18.2 HTTP GET - RESPONSE

Response is identical to response of "Hint for line address search" (see [HTTP GET - response](#))

18.3 HTTP POST FORM - PARAMETERS

see [HTTP GET - parameters](#)

18.4 HTTP POST FORM - RESPONSE

see [HTTP GET - response](#)

18.5 HTTP POST XML - PARAMETERS

18.5.1 URL PARAMETERS

ver	mandatory; interface version Fixed value: 4
cmd	mandatory; method name Fixed value: „hint_city“

18.5.2 REQUEST BODY

<options>							
<text>	mandatory; search text						
<count>	optional; number of required records Default value: 5 Maximum value: 10						
<acountry>	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes						
<nonlatout>	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
<defcntry>	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes						
<alnlang>	optional; language of administrative levels name Default value: CZE						



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	Allowed values:
	CZE Czech
	ENG English
	DEF Country's default language
<pids_country>	optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)
<pids_state>	optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)
<pids_county>	optional; pipe („ “) separated list of administrative level 3 (counties etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 3 search (counties etc.) or Hint for administrative level 3 search (counties etc.)
<auser>	optional; user name to access the service (if authorization is used)
<apass>	optional; password to access the service (if authorization is used)
<reqid>	optional; used to transfer any value from input to output of the service
<output>	optional; output type Default value: xml Allowed values:
	xml Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.
	js Output is JavaScript object
	Notice: In case of passing unsupported value the service returns HTTP status 400
<callback>	optional, makes sense only when using parameter output=js ; name of callback function to be called
</options>	

18.6 HTTP POST XML - RESPONSE

see [HTTP GET - response](#)

18.7 SOAP - PARAMETERS

SOAP interface Method: HintCity

Text	mandatory; search text
Count	optional; number of required records Default value: 5 Maximal value: 10
AllowedCountries	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes
AllowNonLatinOutput	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values:



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	1	Allowed
	2	Disabled
	3	Allowed only if non-latin alfabet in input text is used
DefaultCountry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes	
AdminLevelNameLang	optional; language of administrative levels name Default value: CZE Allowed values: CZE Czech ENG English DEF Country's default language	
ParentIDsCountry	optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)	
ParentIDsState	optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)	
ParentIDsCounty	optional; pipe („ “) separated list of administrative level 3 (counties etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 3 search (counties etc.) or Hint for administrative level 3 search (counties etc.)	
User	optional; user name to access the service (if authorization is used)	
Password	optional; password to access the service (if authorization is used)	
ReqID	optional; used to transfer any value from input to output of the service	

18.8 SOAP - RESPONSE

Response is identical to response of "Hint for line address search" (see [SOAP - response](#))

19 HINT FOR STREET SEARCH

19.1 HTTP GET - PARAMETERS

ver	mandatory; interface version Fixed value: 4						
cmd	mandatory; method name Fixed value: „hint_street“						
text	mandatory; search text						
count	optional; number of required records Default value: 5 Maximum value: 10						
acountry	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes						
nonlatout	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
defcntry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes						
alng	optional; language of administrative levels name Default value: CZE Allowed values: <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
pids_country	optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)						
pids_state	optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)						
pids_county	optional; pipe („ “) separated list of administrative level 3 (counties etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 3 search (counties etc.) or Hint for administrative level 3 search (counties etc.)						
pids_city	optional; pipe („ “) separated list of city record IDs Note: ID must be passed in the same form that is returned by calling service's functions City and city part search or Hint for city and city part search						
auser	optional; user name to access the service (if authorization is used)						
apass	optional; password to access the service (if authorization is used)						
reqid	optional; used to transfer any value from input to output of the service						
output	optional; output type						

	Default value: xml Allowed values: <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table> Notice: In case of passing unsupported value the service returns HTTP status 400	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.	js	Output is JavaScript object
xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.				
js	Output is JavaScript object				
callback	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called				

19.2 HTTP GET - RESPONSE

Response is identical to response of "Hint for line address search" (see [HTTP GET - response](#))

19.3 HTTP POST FORM - PARAMETERS

see [HTTP GET - parameters](#)

19.4 HTTP POST FORM - RESPONSE

see [HTTP GET - response](#)

19.5 HTTP POST XML - PARAMETERS

19.5.1 URL PARAMETERS

ver	mandatory; interface version Fixed value: 4
cmd	mandatory; method name Fixed value: „hint_street“

19.5.2 REQUEST BODY

<options>							
<text>	mandatory; search text						
<count>	optional; number of required records Default value: 5 Maximum value: 10						
<acountry>	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes						
<nonlatout>	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
<defcntry>	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output)						



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	Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes						
<alnlang>	optional; language of administrative levels name Default value: CZE Allowed values: <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
<pids_country>	optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)						
<pids_state>	optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)						
<pids_county>	optional; pipe („ “) separated list of administrative level 3 (counties etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 3 search (counties etc.) or Hint for administrative level 3 search (counties etc.)						
<pids_city>	optional; pipe („ “) separated list of city record IDs Note: ID must be passed in the same form that is returned by calling service's functions City and city part search or Hint for city and city part search						
<auser>	optional; user name to access the service (if authorization is used)						
<apass>	optional; password to access the service (if authorization is used)						
<reqid>	optional; used to transfer any value from input to output of the service						
<output>	optional; output type Default value: xml Allowed values: <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table>	xml	Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.	js	Output is JavaScript object		
xml	Output is XML document with the document element „searchresults“ and each item in results field is wrapped by „item“ element.						
js	Output is JavaScript object						
<callback>	optional, makes sense only when using parameter output=js ; name of callback function to be called						
</options>							

19.6 HTTP POST XML - RESPONSE

see [HTTP GET - response](#)

19.7 SOAP - PARAMETERS

SOAP interface Method: HintStreet

Text	mandatory; search text
------	------------------------

Count	optional; number of required records Default value: 5 Maximal value: 10						
AllowedCountries	optional; semicolon-separated list of countries which will be searched Allowed values: ISO 3166-1 alpha 3 codes						
AllowNonLatinOutput	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 3 Allowed values: <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> <tr> <td>3</td> <td>Allowed only if non-latin alfabet in input text is used</td> </tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alfabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alfabet in input text is used						
DefaultCountry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes						
AdminLevelNameLang	optional; language of administrative levels name Default value: CZE Allowed values: <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
ParentIDsCountry	optional; pipe („ “) separated list of administrative level 1 (countries) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 1 search (countries) or Hint for administrative level 1 search (countries)						
ParentIDsState	optional; pipe („ “) separated list of administrative level 2 (regions, areas etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 2 search (regions, areas etc.) or Hint for administrative level 2 search (regions, areas etc.)						
ParentIDsCounty	optional; pipe („ “) separated list of administrative level 3 (counties etc.) record IDs Note: ID must be passed in the same form that is returned by calling service's functions Administrative level 3 search (counties etc.) or Hint for administrative level 3 search (counties etc.)						
ParentIDsCity	optional; pipe („ “) separated list of city record IDs Note: ID must be passed in the same form that is returned by calling service's functions City and city part search or Hint for city and city part search						
User	optional; user name to access the service (if authorization is used)						
Password	optional; password to access the service (if authorization is used)						
ReqID	optional; used to transfer any value from input to output of the service						

19.8 SOAP - RESPONSE

Response is identical to response of "Hint for line address search" (see [SOAP - response](#))

20 ADDRESS SEARCH BY INTERNAL ID

20.1 HTTP GET - PARAMETERS

ver	mandatory; interface version Fixed value: 4																																								
cmd	mandatory; method name Fixed value: „search_id“																																								
id	mandatory; search ID																																								
outproj	optional; projection of output coordinates Default value: WGS-84																																								
outpos	optional; required coordinate format definition Default value: 1 Allowed values: <table border="1"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form																																
0	Output contains no coordinates																																								
1	Output coordinates in structure																																								
2	Output coordinates in text form																																								
3	Output coordinates in both - structure and text - form																																								
citynorm	optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values: <table border="1"> <tr> <td>0</td> <td>Off</td> </tr> <tr> <td>1</td> <td>On</td> </tr> </table>	0	Off	1	On																																				
0	Off																																								
1	On																																								
resfields	optional; semicolon-separated list of required special fields in output Allowed values: <table border="1"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>lvl</td> <td>Result level</td> </tr> <tr> <td>ctryisoa2</td> <td>Country ISO 3166-1 alpha 2 code</td> </tr> <tr> <td>ctryisoa3</td> <td>Country ISO 3166-1 alpha 3 code</td> </tr> <tr> <td>ctryison</td> <td>Country ISO 3166-1 numeric code</td> </tr> <tr> <td>ctryivrc</td> <td>Country code used for vehicle licence plates (international vehicle registration code)</td> </tr> <tr> <td>ctrydescrcz</td> <td>Full country name in Czech language</td> </tr> <tr> <td>ctrydescrcz</td> <td>Abbreviated country name in Czech language</td> </tr> <tr> <td>ctrydescren</td> <td>Full country name in English language</td> </tr> <tr> <td>ctrydescren</td> <td>Abbreviated country name in English language</td> </tr> <tr> <td>stdescr</td> <td>State/region etc. name (meaning may vary)</td> </tr> <tr> <td>staln</td> <td>Name of administrative level 2 (state, region, federal republic etc.)</td> </tr> <tr> <td>ctydescr</td> <td>County name etc. (meaning may vary)</td> </tr> <tr> <td>ctyaln</td> <td>Name of administrative level 3 (e.g. county)</td> </tr> <tr> <td>citydescr</td> <td>City name</td> </tr> <tr> <td>cityaln</td> <td>Name of administrative level 4 (city, city part etc.)</td> </tr> <tr> <td>cityispart</td> <td>Flag indicating whether city is a city part</td> </tr> <tr> <td>cityptdescr</td> <td>City part name</td> </tr> <tr> <td>cityptaln</td> <td>Name of administrative level (city part)</td> </tr> <tr> <td>pcitydescr</td> <td>Parent city name</td> </tr> </table>	*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code	ctryisoa3	Country ISO 3166-1 alpha 3 code	ctryison	Country ISO 3166-1 numeric code	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)	ctrydescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrydescren	Full country name in English language	ctrydescren	Abbreviated country name in English language	stdescr	State/region etc. name (meaning may vary)	staln	Name of administrative level 2 (state, region, federal republic etc.)	ctydescr	County name etc. (meaning may vary)	ctyaln	Name of administrative level 3 (e.g. county)	citydescr	City name	cityaln	Name of administrative level 4 (city, city part etc.)	cityispart	Flag indicating whether city is a city part	cityptdescr	City part name	cityptaln	Name of administrative level (city part)	pcitydescr	Parent city name
*	All of the following values																																								
lvl	Result level																																								
ctryisoa2	Country ISO 3166-1 alpha 2 code																																								
ctryisoa3	Country ISO 3166-1 alpha 3 code																																								
ctryison	Country ISO 3166-1 numeric code																																								
ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)																																								
ctrydescrcz	Full country name in Czech language																																								
ctrydescrcz	Abbreviated country name in Czech language																																								
ctrydescren	Full country name in English language																																								
ctrydescren	Abbreviated country name in English language																																								
stdescr	State/region etc. name (meaning may vary)																																								
staln	Name of administrative level 2 (state, region, federal republic etc.)																																								
ctydescr	County name etc. (meaning may vary)																																								
ctyaln	Name of administrative level 3 (e.g. county)																																								
citydescr	City name																																								
cityaln	Name of administrative level 4 (city, city part etc.)																																								
cityispart	Flag indicating whether city is a city part																																								
cityptdescr	City part name																																								
cityptaln	Name of administrative level (city part)																																								
pcitydescr	Parent city name																																								

	pcityaln	Name of administrative level (parent city)
	strdescr	Street name
	hndescr	House number
	hnpost	Post code
	hnruian	RUIAN address code (for Czech addresses only)
	hnd	House number part - descriptive number
	hno	House number part - orientation number
	hnreg	House number part - registration number
	hnrepl	House number part - replacement number
	realsearchvalues	Real values used for search
nonlatout	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 2 Allowed values:	
	1	Allowed
	2	Disabled
defcntry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes	
alnlang	optional; language of administrative levels name Default value: CZE Allowed values:	
	CZE	Czech
	ENG	English
	DEF	Country's default language
auser	optional; user name to access the service (if authorization is used)	
apass	optional; password to access the service (if authorization is used)	
reqid	optional; used to transfer any value from input to output of the service	
output	optional; output type Default value: xml Allowed values:	
	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.
	js	Output is JavaScript object
	Notice: In case of passing unsupported value the service returns HTTP status 400	
callback	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called	

20.2 HTTP GET - RESPONSE

request	list of input parameters
{	
version	always given; interface version
cmd	always given; method name
reqid	given if <i>reqid</i> parameter is passed in; <i>reqid</i> parameter value
id	always given; <i>id</i> parameter value
}	
response	

{	
error	always given; error code Possible values:
	0 Operation finished with no error
	-1 Invalid argument (parameter value, missing parameter etc.)
	-2 Authorization error
	-3 Unsupported method
	-10 Internal error
	-101 No search results
errormessage	always given; error message
count	given if <i>error</i> =0; number of results in field <i>results</i>
prevavail	given if <i>error</i> =0; availability of previous page Possible values:
	0 Previous page is not available
	1 Previous page is available
nextavail	given if <i>error</i> =0; availability of the next page Possible values:
	0 Next page is not available
	1 Next page is available
results	given if <i>error</i> =0; results array
[{	
id	always given; record ID
descr	always given; description
descrex	always given; extended description
capabilities	always given; result properties (see structure <i>DT_CAPABILITIES</i>)
pos	given if parameter <i>outpos</i> =[1, 3]; coordinates (see structure <i>DT_POS</i>)
strpos	given if parameter <i>outpos</i> =[2, 3]; coordinates in text form
boundingbox	given if <i>capabilities</i> contains item <i>boundingbox</i> and parameter <i>outpos</i> =[1, 3]; coordinates of bounding box (see structure <i>DT_BOUNDINGBOX</i>)
strboundingbox	given if <i>capabilities</i> contains item <i>boundingbox</i> and parameter <i>outpos</i> =[2, 3]; coordinates of bounding box in text form (see structure <i>DT_STRBOUNDINGBOX</i>)
level	given if parameter <i>resfields</i> contains value <i>lvl</i> ; result level Possible values:
	country administrative level 1 (country)
	state administrative level 2 (e.g. state, region, federal republic)
	county administrative level 3 (e.g. county)
	city city, city part
	street street
	house_no house number
countryisoa2	given if parameter <i>resfields</i> contains value <i>ctryisoa2</i> ; country ISO 3166-1 alpha 2 code
countryisoa3	given if parameter <i>resfields</i> contains value <i>ctryisoa3</i> ; country ISO 3166-1 alpha 3 code
countryison	given if parameter <i>resfields</i> contains value <i>ctryison</i> ; country ISO 3166-1 numeric code



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countryivrc	given if parameter <i>resfields</i> contains value <i>ctryivrc</i> ; country code used for registration plates of vehicles
countryshortdescrcz	given if parameter <i>resfields</i> contains value <i>ctrydescrcz</i> ; abbreviated country name in czech language
countrydescrcz	given if parameter <i>resfields</i> contains value <i>ctrydescrcz</i> ; full country name in czech language
countryshortdescen	given if parameter <i>resfields</i> contains value <i>ctrydescen</i> ; abbreviated country name in english language
countrydescen	given if parameter <i>resfields</i> contains value <i>ctrydescen</i> ; full country name in english language
statedescr	given if parameter <i>resfields</i> contains value <i>stdescr</i> and results are from level "state" and lower; name of region/area etc. (meaning may vary)
stateadminlevelname	given if parameter <i>resfields</i> contains value <i>staln</i> and results are from level „state“ and lower; name of administrative level 2 (state, region, federal republic etc.)
countydescr	given if parameter <i>resfields</i> contains value <i>ctydescr</i> and results are from level „county“ and lower; name of county etc. (meaning may vary)
countyadminlevelname	given if parameter <i>resfields</i> contains value <i>ctyaln</i> and results are from level „county“ and lower; name of administrative level 3 (e.g. county)
citydescr	given if parameter <i>resfields</i> contains value <i>citydescr</i> and results are from level „city“ and lower; city name
cityadminlevelname	given if parameter <i>resfields</i> contains value <i>cityaln</i> and results are from level „city“ and lower; name of administrative level 4 (city, city part etc.)
cityispart	given if parameter <i>resfields</i> contains value <i>cityispart</i> and results are from level „city“ and lower; a flag indicating whether city is a city part either
parentcitydescr	given if parameter <i>resfields</i> contains value <i>pcitydescr</i> and results are from level „city“ and lower; parent city name Note: If the field <i>cityispart</i> =0 or parameter <i>citynorm</i> =1 content of this field is always empty
parentcityadminlevelname	given if parameter <i>resfields</i> contains value <i>pcityaln</i> and results are from level „city“ and lower; name of administrative level (parent city) Note: If the field <i>cityispart</i> =0 or parameter <i>citynorm</i> =1 content of this field is always empty
citypartdescr	given if parameter <i>resfields</i> contains value <i>cityptdescr</i> and results are from level „city“ and lower; city part name Note: If parameter <i>citynorm</i> =0 content of this field is always empty
citypartadminlevelname	given if parameter <i>resfields</i> contains value <i>cityptaln</i> and results are from level „city“ and lower; name of administrative level (city part) Note: If parameter <i>citynorm</i> =0 content of this field is always empty
streetdescr	given if parameter <i>resfields</i> contains value <i>strdescr</i> and results are from level „street“ and lower; street name
housenodescr	given if parameter <i>resfields</i> contains value <i>hndescr</i> and results are from level „house_no“ and lower; house number
housenopostcode	given if parameter <i>resfields</i> contains value <i>hnpost</i> and results are from level „house_no“ and lower; post code
housenoruian	given if parameter <i>resfields</i> contains value <i>hnruian</i> and results are from level „house_no“ and lower; RUIAN address code (for Czech addresses)



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	only)
housenodescriptive	given if parameter <i>resfields</i> contains value <i>hnd</i> and results are from level „house_no“ and lower; house number part - descriptive number
housenoorientation	given if parameter <i>resfields</i> contains value <i>hno</i> and results are from level „house_no“ and lower; house number part - orientation number
housenoregistration	given if parameter <i>resfields</i> contains value <i>hnreg</i> and results are from level „house_no“ and lower; house number part - registration number
housenoreplacement	given if parameter <i>resfields</i> contains value <i>hnrepl</i> and results are from level „house_no“ and lower; house number part - replacement number
} , ...]	
boundingbox	given if parameter <i>outpos</i> =[1, 3]; all results bounding box coordinates (see structure <i>DT_BOUNDINGBOX</i>)
strboundingbox	given if parameter <i>outpos</i> =[2, 3]; all results bounding box string coordinates (see structure <i>DT_STRBOUNDINGBOX</i>)
precision	given in parameter <i>outpos</i> =[1, 2, 3]; diagonal of all results bounding box in meters
realsearchvalues	given if parameter <i>resfields</i> contains value <i>realsearchvalues</i> ; real search values (see structure <i>DT_REALSEARCHVALUES</i>)
}	

20.3 HTTP POST FORM - PARAMETERS

see [HTTP GET - parameters](#)

20.4 HTTP POST FORM - RESPONSE

see [HTTP GET - response](#)

20.5 HTTP POST XML - PARAMETERS

20.5.1 URL PARAMETERS

ver	mandatory; interface version Fixed value: 4
cmd	mandatory; method name Fixed value: „search_id“

20.5.2 REQUEST BODY

<options>	
<id>	mandatory; search ID
<outproj>	optional; projection of output coordinates Default value: WGS-84

<outpos>	<p>optional; required coordinate format definition Default value: 1 Allowed values:</p> <table border="1"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form																																																				
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1	Output coordinates in structure																																																												
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3	Output coordinates in both - structure and text - form																																																												
<citynorm>	<p>optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values:</p> <table border="1"> <tr> <td>0</td> <td>Off</td> </tr> <tr> <td>1</td> <td>On</td> </tr> </table>	0	Off	1	On																																																								
0	Off																																																												
1	On																																																												
<resfields>	<p>optional; semicolon-separated list of required special fields in output Allowed values:</p> <table border="1"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>lvl</td> <td>Result level</td> </tr> <tr> <td>ctryisoa2</td> <td>Country ISO 3166-1 alpha 2 code</td> </tr> <tr> <td>ctryisoa3</td> <td>Country ISO 3166-1 alpha 3 code</td> </tr> <tr> <td>ctryison</td> <td>Country ISO 3166-1 numeric code</td> </tr> <tr> <td>ctryivrc</td> <td>Country code used for vehicle licence plates (international vehicle registration code)</td> </tr> <tr> <td>ctrydescrcz</td> <td>Full country name in Czech language</td> </tr> <tr> <td>ctrydescrcz</td> <td>Abbreviated country name in Czech language</td> </tr> <tr> <td>ctrydescren</td> <td>Full country name in English language</td> </tr> <tr> <td>ctrydescren</td> <td>Abbreviated country name in English language</td> </tr> <tr> <td>stdescr</td> <td>State/region etc. name (meaning may vary)</td> </tr> <tr> <td>staln</td> <td>Name of administrative level 2 (state, region, federal republic etc.)</td> </tr> <tr> <td>ctydescr</td> <td>County name etc. (meaning may vary)</td> </tr> <tr> <td>ctyaln</td> <td>Name of administrative level 3 (e.g. county)</td> </tr> <tr> <td>citydescr</td> <td>City name</td> </tr> <tr> <td>cityaln</td> <td>Name of administrative level 4 (city, city part etc.)</td> </tr> <tr> <td>cityispart</td> <td>Flag indicating whether city is a city part</td> </tr> <tr> <td>cityptdescr</td> <td>City part name</td> </tr> <tr> <td>cityptaln</td> <td>Name of administrative level (city part)</td> </tr> <tr> <td>pcitydescr</td> <td>Parent city name</td> </tr> <tr> <td>pcityaln</td> <td>Name of administrative level (parent city)</td> </tr> <tr> <td>strdescr</td> <td>Street name</td> </tr> <tr> <td>hnddescr</td> <td>House number</td> </tr> <tr> <td>hnpost</td> <td>Post code</td> </tr> <tr> <td>hnruian</td> <td>RUIAN address code (for Czech addresses only)</td> </tr> <tr> <td>hnd</td> <td>House number part - descriptive number</td> </tr> <tr> <td>hno</td> <td>House number part - orientation number</td> </tr> <tr> <td>hnreg</td> <td>House number part - registration number</td> </tr> <tr> <td>hnrepl</td> <td>House number part - replacement number</td> </tr> <tr> <td>realsearchvalues</td> <td>Real values used for search</td> </tr> </table>	*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code	ctryisoa3	Country ISO 3166-1 alpha 3 code	ctryison	Country ISO 3166-1 numeric code	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)	ctrydescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrydescren	Full country name in English language	ctrydescren	Abbreviated country name in English language	stdescr	State/region etc. name (meaning may vary)	staln	Name of administrative level 2 (state, region, federal republic etc.)	ctydescr	County name etc. (meaning may vary)	ctyaln	Name of administrative level 3 (e.g. county)	citydescr	City name	cityaln	Name of administrative level 4 (city, city part etc.)	cityispart	Flag indicating whether city is a city part	cityptdescr	City part name	cityptaln	Name of administrative level (city part)	pcitydescr	Parent city name	pcityaln	Name of administrative level (parent city)	strdescr	Street name	hnddescr	House number	hnpost	Post code	hnruian	RUIAN address code (for Czech addresses only)	hnd	House number part - descriptive number	hno	House number part - orientation number	hnreg	House number part - registration number	hnrepl	House number part - replacement number	realsearchvalues	Real values used for search
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<nonlatout>	<p>optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 2</p>																																																												

	<p>Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> </table>	1	Allowed	2	Disabled		
1	Allowed						
2	Disabled						
<defcntry>	<p>optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes</p>						
<alnlang>	<p>optional; language of administrative levels name Default value: CZE Allowed values:</p> <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
<auser>	optional; user name to access the service (if authorization is used)						
<apass>	optional; password to access the service (if authorization is used)						
<reqid>	optional; used to transfer any value from input to output of the service						
<output>	<p>optional; output type Default value: xml Allowed values:</p> <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> <tr> <td>js</td> <td>Output is JavaScript object</td> </tr> </table> <p>Notice: In case of passing unsupported value the service returns HTTP status 400</p>	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.	js	Output is JavaScript object		
xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.						
js	Output is JavaScript object						
<callback>	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called						
</options>							

20.6 HTTP POST XML - RESPONSE

see [HTTP GET - response](#)

20.7 SOAP - PARAMETERS

SOAP interface Method: SearchID

ID	mandatory; search ID								
OutputProjection	optional; projection of output coordinates Default value: WGS-84								
OutputPosition	optional; required coordinate format definition Default value: 1 Allowed values:								
	<table border="1"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form
0	Output contains no coordinates								
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CityNormalization	optional; flag whether city normalization is required (city parts are returned individually and								

	<p>not in city section) Default value: 0 Allowed values:</p> <table border="1"> <tr> <td>0</td> <td>Off</td> </tr> <tr> <td>1</td> <td>On</td> </tr> </table>	0	Off	1	On																																																								
0	Off																																																												
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ResultFields	<p>optional; semicolon-separated list of required special fields in output Allowed values:</p> <table border="1"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>lvl</td> <td>Result level</td> </tr> <tr> <td>ctryisoa2</td> <td>Country ISO 3166-1 alpha 2 code</td> </tr> <tr> <td>ctryisoa3</td> <td>Country ISO 3166-1 alpha 3 code</td> </tr> <tr> <td>ctryison</td> <td>Country ISO 3166-1 numeric code</td> </tr> <tr> <td>ctryivrc</td> <td>Country code used for vehicle licence plates (international vehicle registration code)</td> </tr> <tr> <td>ctrysdscrcz</td> <td>Full country name in Czech language</td> </tr> <tr> <td>ctrydescrcz</td> <td>Abbreviated country name in Czech language</td> </tr> <tr> <td>ctrysdscren</td> <td>Full country name in English language</td> </tr> <tr> <td>ctrydescren</td> <td>Abbreviated country name in English language</td> </tr> <tr> <td>stdescr</td> <td>State/region etc. name (meaning may vary)</td> </tr> <tr> <td>staln</td> <td>Name of administrative level 2 (state, region, federal republic etc.)</td> </tr> <tr> <td>ctydescr</td> <td>County name etc. (meaning may vary)</td> </tr> <tr> <td>ctyaln</td> <td>Name of administrative level 3 (e.g. county)</td> </tr> <tr> <td>citydescr</td> <td>City name</td> </tr> <tr> <td>cityaln</td> <td>Name of administrative level 4 (city, city part etc.)</td> </tr> <tr> <td>cityispart</td> <td>Flag indicating whether city is a city part</td> </tr> <tr> <td>cityptdescr</td> <td>City part name</td> </tr> <tr> <td>cityptaln</td> <td>Name of administrative level (city part)</td> </tr> <tr> <td>pcitydescr</td> <td>Parent city name</td> </tr> <tr> <td>pcityaln</td> <td>Name of administrative level (parent city)</td> </tr> <tr> <td>strdescr</td> <td>Street name</td> </tr> <tr> <td>hnddescr</td> <td>House number</td> </tr> <tr> <td>hnpost</td> <td>Post code</td> </tr> <tr> <td>hnruian</td> <td>RUIAN address code (for Czech addresses only)</td> </tr> <tr> <td>hnd</td> <td>House number part - descriptive number</td> </tr> <tr> <td>hno</td> <td>House number part - orientation number</td> </tr> <tr> <td>hnreg</td> <td>House number part - registration number</td> </tr> <tr> <td>hnrepl</td> <td>House number part - replacement number</td> </tr> <tr> <td>realsearchvalues</td> <td>Real values used for search</td> </tr> </table>	*	All of the following values	lvl	Result level	ctryisoa2	Country ISO 3166-1 alpha 2 code	ctryisoa3	Country ISO 3166-1 alpha 3 code	ctryison	Country ISO 3166-1 numeric code	ctryivrc	Country code used for vehicle licence plates (international vehicle registration code)	ctrysdscrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrysdscren	Full country name in English language	ctrydescren	Abbreviated country name in English language	stdescr	State/region etc. name (meaning may vary)	staln	Name of administrative level 2 (state, region, federal republic etc.)	ctydescr	County name etc. (meaning may vary)	ctyaln	Name of administrative level 3 (e.g. county)	citydescr	City name	cityaln	Name of administrative level 4 (city, city part etc.)	cityispart	Flag indicating whether city is a city part	cityptdescr	City part name	cityptaln	Name of administrative level (city part)	pcitydescr	Parent city name	pcityaln	Name of administrative level (parent city)	strdescr	Street name	hnddescr	House number	hnpost	Post code	hnruian	RUIAN address code (for Czech addresses only)	hnd	House number part - descriptive number	hno	House number part - orientation number	hnreg	House number part - registration number	hnrepl	House number part - replacement number	realsearchvalues	Real values used for search
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realsearchvalues	Real values used for search																																																												
AllowNonLatinOutput	<p>optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 2 Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> </table>	1	Allowed	2	Disabled																																																								
1	Allowed																																																												
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DefaultCountry	<p>optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes</p>																																																												
AdminLevelNameLang	<p>optional; language of administrative levels name</p>																																																												

	Default value: CZE Allowed values: <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language
CZE	Czech						
ENG	English						
DEF	Country's default language						
User	optional; user name to access the service (if authorization is used)						
Password	optional; password to access the service (if authorization is used)						
ReqID	optional; used to transfer any value from input to output of the service						

20.8 SOAP - RESPONSE

Request	list of input parameters												
{													
Version	always given; interface version												
ReqID	given if <i>reqid</i> parameter is passed in; <i>reqid</i> parameter value												
ID	always given; parameter value <i>ID</i>												
}													
Response													
{													
Error	always given; error code Possible values: <table border="1"> <tr> <td>0</td> <td>Operation finished with no error</td> </tr> <tr> <td>-1</td> <td>Invalid argument (parameter value, missing parameter etc.)</td> </tr> <tr> <td>-2</td> <td>Authorization error</td> </tr> <tr> <td>-3</td> <td>Unsupported method</td> </tr> <tr> <td>-10</td> <td>Internal error</td> </tr> <tr> <td>-101</td> <td>No search results</td> </tr> </table>	0	Operation finished with no error	-1	Invalid argument (parameter value, missing parameter etc.)	-2	Authorization error	-3	Unsupported method	-10	Internal error	-101	No search results
0	Operation finished with no error												
-1	Invalid argument (parameter value, missing parameter etc.)												
-2	Authorization error												
-3	Unsupported method												
-10	Internal error												
-101	No search results												
ErrorMessage	always given; error message												
Count	given if <i>Error</i> =0; number of results in field <i>Results</i>												
PrevAvail	given if <i>Error</i> =0; availability of previous page Possible values: <table border="1"> <tr> <td>0</td> <td>Previous page is not available</td> </tr> <tr> <td>1</td> <td>Previous page is available</td> </tr> </table>	0	Previous page is not available	1	Previous page is available								
0	Previous page is not available												
1	Previous page is available												
NextAvail	given if <i>Error</i> =0; availability of the next page Possible values: <table border="1"> <tr> <td>0</td> <td>Next page is not available</td> </tr> <tr> <td>1</td> <td>Next page is available</td> </tr> </table>	0	Next page is not available	1	Next page is available								
0	Next page is not available												
1	Next page is available												
Results	given if <i>Error</i> =0; results array												
[{													
ID	always given; record ID												
Descr	always given; description												
DescrEx	always given; extended description												
Capabilities	always given; result properties (see structure <i>DT_SOAP_CAPABILITIES</i>)												
Pos	given if parameter <i>OutputPosition</i> =[1, 3]; coordinates (see structure <i>DT_SOAP_POS</i>)												
StrPos	given if parameter <i>OutputPosition</i> =[2, 3]; coordinates in text form												
BoundingBox	given if <i>Capabilities</i> contains item <i>BoundingBox</i> and parameter												



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	<i>OutputPosition</i> =[1, 3]; coordinates of bounding box (see structure <i>DT_SOAP_BOUNDINGBOX</i>)												
StrBoundingBox	given if <i>Capabilities</i> contains item <i>BoundingBox</i> and parameter <i>OutputPosition</i> =[2, 3]; coordinates of bounding box in text form (see structure <i>DT_SOAP_STRBOUNDINGBOX</i>)												
Level	<p>given if parameter <i>ResultFields</i> contains value <i>lvl</i>; result level</p> <p>Possible values:</p> <table border="1"> <tr> <td>country</td> <td>administrative level 1 (country)</td> </tr> <tr> <td>state</td> <td>administrative level 2 (e.g. state, region, federal republic)</td> </tr> <tr> <td>county</td> <td>administrative level 3 (e.g. county)</td> </tr> <tr> <td>city</td> <td>city, city part</td> </tr> <tr> <td>street</td> <td>street</td> </tr> <tr> <td>house_no</td> <td>house number</td> </tr> </table>	country	administrative level 1 (country)	state	administrative level 2 (e.g. state, region, federal republic)	county	administrative level 3 (e.g. county)	city	city, city part	street	street	house_no	house number
country	administrative level 1 (country)												
state	administrative level 2 (e.g. state, region, federal republic)												
county	administrative level 3 (e.g. county)												
city	city, city part												
street	street												
house_no	house number												
CountryISOA2	given if parameter <i>ResultFields</i> contains value <i>ctryisoa2</i> ; country ISO 3166-1 alpha 2 code												
CountryISOA3	given if parameter <i>ResultFields</i> contains value <i>ctryisoa3</i> ; country ISO 3166-1 alpha 3 code												
CountryISON	given if parameter <i>ResultFields</i> contains value <i>ctryison</i> ; country ISO 3166-1 numeric code												
CountryIVRC	given if parameter <i>ResultFields</i> contains value <i>ctryivrc</i> ; country code used for registration plates of vehicles												
CountryShortDescrCZ	given if parameter <i>ResultFields</i> contains value <i>ctrydescrcz</i> ; abbreviated country name in czech language												
CountryDescrCZ	given if parameter <i>ResultFields</i> contains value <i>ctrydescrcz</i> ; full country name in czech language												
CountryShortDescrEN	given if parameter <i>ResultFields</i> contains value <i>ctrydescren</i> ; abbreviated country name in english language												
CountryDescrEN	given if parameter <i>ResultFields</i> contains value <i>ctrydescren</i> ; full country name in english language												
StateDescr	given if parameter <i>ResultFields</i> contains value <i>stdescr</i> and results are from level "state" and lower; name of region/area etc. (meaning may vary)												
StateAdminLevelName	given if parameter <i>ResultFields</i> contains value <i>staln</i> and results are from level „state“ and lower; name of administrative level 2 (state, region, federal republic etc.)												
CountyDescr	given if parameter <i>ResultFields</i> contains value <i>ctydescr</i> and results are from level „county“ and lower; name of county etc. (meaning may vary)												
CountyAdminLevelName	given if parameter <i>ResultFields</i> contains value <i>ctyaln</i> and results are from level „county“ and lower; name of administrative level 3 (e.g. county)												
CityDescr	given if parameter <i>ResultFields</i> contains value <i>citydescr</i> and results are from level „city“ and lower; city name												
CityAdminLevelName	given if parameter <i>ResultFields</i> contains value <i>cityaln</i> and results are from level „city“ and lower; name of administrative level 4 (city, city part etc.)												
CityIsPart	given if parameter <i>ResultFields</i> contains value <i>cityispart</i> and results are from level „city“ and lower; a flag indicating whether city is a city part either												

ParentCityDescr	given if parameter <i>ResultFields</i> contains value <i>pcitydescr</i> and results are from level „city“ and lower; parent city name Note: If the field <i>CityIsPart</i> =0 or parameter <i>CityNormalization</i> =1 content of this field is always empty
ParentCityAdminLevelName	given if parameter <i>ResultFields</i> contains value <i>pcityaln</i> and results are from level „city“ and lower; name of administrative level (parent city) Note: If the field <i>CityIsPart</i> =0 or parameter <i>CityNormalization</i> =1 content of this field is always empty
CityPartDescr	given if parameter <i>ResultFields</i> contains value <i>cityptdescr</i> and results are from level „city“ and lower; city part name Note: If parameter <i>CityNormalization</i> =0 content of this field is always empty
CityPartAdminLevelName	given if parameter <i>ResultFields</i> contains value <i>cityptaln</i> and results are from level „city“ and lower; name of administrative level (city part) Note: If parameter <i>CityNormalization</i> =0 content of this field is always empty
StreetDescr	given if parameter <i>ResultFields</i> contains value <i>strdescr</i> and results are from level „street“ and lower; street name
HouseNoDescr	given if parameter <i>ResultFields</i> contains value <i>hndescr</i> and results are from level „house_no“ and lower; house number
HouseNoPostCode	given if parameter <i>ResultFields</i> contains value <i>hnpost</i> and results are from level „house_no“ and lower; post code
HouseNoRUIAN	given if parameter <i>ResultFields</i> contains value <i>hnruian</i> and results are from level „house_no“ and lower; RUIAN address code (for Czech addresses only)
HouseNoDescriptive	given if parameter <i>ResultFields</i> contains value <i>hnd</i> and results are from level „house_no“ and lower; house number part - descriptive number
HouseNoOrientation	given if parameter <i>ResultFields</i> contains value <i>hno</i> and results are from level „house_no“ and lower; house number part - orientation number
HouseNoRegistration	given if parameter <i>ResultFields</i> contains value <i>hnreg</i> and results are from level „house_no“ and lower; house number part - registration number
HouseNoReplacement	given if parameter <i>ResultFields</i> contains value <i>hnrepl</i> and results are from level „house_no“ and lower; house number part - replacement number
}, ...]	
BoundingBox	given if parameter <i>OutputPosition</i> =[1, 3]; all results bounding box coordinates (see structure <i>DT_SOAP_BOUNDINGBOX</i>)
StrBoundingBox	given if parameter <i>OutputPosition</i> =[2, 3]; all results bounding box string coordinates (see structure <i>DT_SOAP_STRBOUNDINGBOX</i>)
Precision	given in parameter <i>OutputPosition</i> =[1, 2, 3]; diagonal of all results bounding box in meters
RealSearchValues	given if parameter <i>ResultFields</i> contains value <i>realsearchvalues</i> ; real search values (see structure <i>DT_SOAP_REALSEARCHVALUES</i>)
}	

20.9 EXAMPLES



Position s.r.o.

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<http://www.position.cz>

20.9.1 HTTP GET

Request:

http://services.position.cz/search/?cmd=search_id&ver=4&id=city;545981092&resfields=*

Response:

```
<?xml version="1.0" encoding="UTF-8"?>
<searchresults>
  <request>
    <version>4</version>
    <cmd>search_id</cmd>
    <id>city;545981092</id>
  </request>
  <response>
    <error>0</error>
    <errormessage />
    <count>1</count>
    <prevavail>0</prevavail>
    <nextavail>0</nextavail>
    <results>
      <item>
        <id>city;545981092</id>
        <descr>Praha</descr>
        <descres>okres Hlavní Město Praha</descres>
        <capabilities>
          <detail>1</detail>
          <boundingbox>1</boundingbox>
          <geometrypolygon>1</geometrypolygon>
        </capabilities>
        <pos>
          <proj>WGS-84</proj>
          <lat>50.07913</lat>
          <lon>14.43302</lon>
        </pos>
        <level>city</level>
        <countryisoa2>CZ</countryisoa2>
        <countryisoa3>CZE</countryisoa3>
        <countryison>203</countryison>
        <countryivrc>CZ</countryivrc>
        <countryshortdescrcz>Česko</countryshortdescrcz>
        <countrydescrcz>Česká republika</countrydescrcz>
        <countryshortdescren>Czech Republic</countryshortdescren>
        <countrydescren>Czech Republic</countrydescren>
        <statedescr>Hlavní Město Praha</statedescr>
        <stateadminlevelname>kraj</stateadminlevelname>
        <countydescr>Hlavní Město Praha</countydescr>
        <countyadminlevelname>okres</countyadminlevelname>
        <citydescr>Praha</citydescr>
        <cityadminlevelname>obec</cityadminlevelname>
        <cityispart>0</cityispart>
        <parentcitydescr />
        <parentcityadminlevelname />
        <citypartdescr />
        <citypartadminlevelname />
      </item>
    </results>
  </response>
</searchresults>
```



```
</results>
</response>
</searchresults>
```

20.9.2 HTTP POST XML

Request:

http://services.position.cz/search/?cmd=search_id&ver=4

POST data:

```
<?xml version="1.0" encoding="utf-8"?>
<options>
  <id>city;545981092</id>
  <resfields>*</resfields>
</options>
```

Response:

```
<?xml version="1.0" encoding="UTF-8"?>
<searchresults>
  <request>
    <version>4</version>
    <cmd>search_id</cmd>
    <id>city;545981092</id>
  </request>
  <response>
    <error>0</error>
    <errormessage />
    <count>1</count>
    <prevavail>0</prevavail>
    <nextavail>0</nextavail>
    <results>
      <item>
        <id>city;545981092</id>
        <descr>Praha</descr>
        <descrex>okres Hlavní Město Praha</descrex>
        <capabilities>
          <detail>1</detail>
          <boundingbox>1</boundingbox>
          <geometrypolygon>1</geometrypolygon>
        </capabilities>
        <pos>
          <proj>WGS-84</proj>
          <lat>50.07913</lat>
          <lon>14.43302</lon>
        </pos>
        <level>city</level>
        <countryisoa2>CZ</countryisoa2>
        <countryisoa3>CZE</countryisoa3>
        <countryison>203</countryison>
        <countryivrc>CZ</countryivrc>
        <countryshortdescrcz>Česko</countryshortdescrcz>
        <countrydescrcz>Česká republika</countrydescrcz>
        <countryshortdescren>Czech Republic</countryshortdescren>
        <countrydescren>Czech Republic</countrydescren>
        <statedescr>Hlavní Město Praha</statedescr>
```



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<http://www.position.cz>

```
<stateadminlevelname>kraj</stateadminlevelname>
<countydescr>Hlavní Město Praha</countydescr>
<countyadminlevelname>okres</countyadminlevelname>
<citydescr>Praha</citydescr>
<cityadminlevelname>obec</cityadminlevelname>
<cityispart>0</cityispart>
<parentcitydescr />
<parentcityadminlevelname />
<citypartdescr />
<citypartadminlevelname />
</item>
</results>
</response>
</searchresults>
```

21 ADDRESS DETAIL BY INTERNAL ID

21.1 HTTP GET - PARAMETERS

ver	mandatory; interface version Fixed value: 4																				
cmd	mandatory; method name Fixed value: „detail“																				
id	mandatory; search ID																				
outproj	optional; projection of output coordinates Default value: WGS-84																				
outpos	optional; required coordinate format definition Default value: 1 Allowed values: <table border="1"> <tr> <td>0</td> <td>Output contains no coordinates</td> </tr> <tr> <td>1</td> <td>Output coordinates in structure</td> </tr> <tr> <td>2</td> <td>Output coordinates in text form</td> </tr> <tr> <td>3</td> <td>Output coordinates in both - structure and text - form</td> </tr> </table>	0	Output contains no coordinates	1	Output coordinates in structure	2	Output coordinates in text form	3	Output coordinates in both - structure and text - form												
0	Output contains no coordinates																				
1	Output coordinates in structure																				
2	Output coordinates in text form																				
3	Output coordinates in both - structure and text - form																				
geometry	optional; required type of geometry Default value: 1 Allowed values: <table border="1"> <tr> <td>0</td> <td>Output contains no geometry</td> </tr> <tr> <td>1</td> <td>Output contains a point geometry</td> </tr> <tr> <td>2</td> <td>Output contains point and line geometry or polygon geometry.</td> </tr> </table> <p>Note: Depending on the contractual restrictions output of the line or polygon geometry can be disabled. In case it's allowed, the geometry is provided as WKB encoded in base64.</p>	0	Output contains no geometry	1	Output contains a point geometry	2	Output contains point and line geometry or polygon geometry.														
0	Output contains no geometry																				
1	Output contains a point geometry																				
2	Output contains point and line geometry or polygon geometry.																				
citynorm	optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values: <table border="1"> <tr> <td>0</td> <td>Off</td> </tr> <tr> <td>1</td> <td>On</td> </tr> </table>	0	Off	1	On																
0	Off																				
1	On																				
outlvls	optional; semicolon-separated list of required levels with details Default value: country;state;county;city;city_part;street;house_no Allowed values: <table border="1"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>self</td> <td>ID self level (varies depending on ID)</td> </tr> <tr> <td>house_no</td> <td>House number</td> </tr> <tr> <td>street</td> <td>Street</td> </tr> <tr> <td>parent_city</td> <td>Parent city</td> </tr> <tr> <td>city</td> <td>City</td> </tr> <tr> <td>city_part</td> <td>City part</td> </tr> <tr> <td>county</td> <td>Administrative level 3 (county etc.)</td> </tr> <tr> <td>state</td> <td>Administrative level 2 (state, region etc.)</td> </tr> <tr> <td>country</td> <td>Administrative level 1 (country)</td> </tr> </table>	*	All of the following values	self	ID self level (varies depending on ID)	house_no	House number	street	Street	parent_city	Parent city	city	City	city_part	City part	county	Administrative level 3 (county etc.)	state	Administrative level 2 (state, region etc.)	country	Administrative level 1 (country)
*	All of the following values																				
self	ID self level (varies depending on ID)																				
house_no	House number																				
street	Street																				
parent_city	Parent city																				
city	City																				
city_part	City part																				
county	Administrative level 3 (county etc.)																				
state	Administrative level 2 (state, region etc.)																				
country	Administrative level 1 (country)																				
nonlatout	optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 2 Allowed values:																				

	1	Allowed
	2	Disabled
defcntry	optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes	
alnlng	optional; language of administrative levels name Default value: CZE Allowed values:	
	CZE	Czech
	ENG	English
	DEF	Country's default language
ouser	optional; user name to access the service (if authorization is used)	
apass	optional; password to access the service (if authorization is used)	
reqid	optional; used to transfer any value from input to output of the service	
output	optional; output type Default value: xml Allowed values:	
	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.
	js	Output is JavaScript object
	Notice: In case of passing unsupported value the service returns HTTP status 400	
callback	optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called	

21.2 HTTP GET - RESPONSE

request	list of input parameters
{	
version	always given; interface version
cmd	always given; method name
reqid	given if <i>reqid</i> parameter is passed in; <i>reqid</i> parameter value
id	always given; <i>id</i> parameter value
}	
response	
{	
error	always given; error code Possible values:
	0 Operation finished with no error
	-1 Invalid argument (parameter value, missing parameter etc.)
	-2 Authorization error
	-3 Unsupported method
	-10 Internal error
	-101 No search results
errormessage	always given; error message
detail	given if <i>error=0</i> ; result
{	
id	always given; record ID

descr	always given; description
descrex	always given; extended description
capabilities	always given; result properties (see structure DT_CAPABILITIES)
level	always given; result level Possible values:
	country administrative level 1 (country)
	state administrative level 2 (e.g. state, region, federal republic)
	county administrative level 3 (e.g. county)
	city city, city part
	street street
	house_no house number
country	given if parameter <i>outlvls</i> contains value <i>country</i> or parameter <i>outlvls</i> contains value <i>self</i> and field <i>level</i> =country; detailed information on administrative level 1 (country)
{	
id	always given; record ID
descr	always given; country name
descrtr	always given; country name transliterated into ISO Latin 1 character set
isocodea3	always given; country ISO 3166-1 alpha 3 code
isocodea2	always given; country ISO 3166-1 alpha 2 code
isocoden	always given; country ISO 3166-1 numeric code
ivrc	always given; country code used for registration plates of vehicles
isodescrcze	always given; full country name in czech language
isoshortdescrcze	always given; abbreviated country name in czech language
isodescreng	always given; full country name in english language
isoshortdescreng	always given; abbreviated country name in english language
pos	given if field <i>level</i> =country, parameter <i>geometry</i> =[1, 2] and parameter <i>outpos</i> =[1, 3]; coordinates (see structure DT_POS)
strpos	given if field <i>level</i> =country, parameter <i>geometry</i> =[1, 2] and parameter <i>outpos</i> =[2, 3]; coordinates in text form
geometrypolygon	given if field <i>level</i> =country and parameter <i>geometry</i> =2; detailed country polygon in WKB format (Well known binary) encoded in base64
boundingbox	given if parameter <i>outpos</i> =[1, 3]; coordinates of country bounding box (see structure DT_BOUNDINGBOX)
strboundingbox	given if parameter <i>outpos</i> =[2, 3]; coordinates of country bounding box in text form form (see structure DT_STRBOUNDINGBOX)
}	
state	given if field <i>level</i> =[state, county, city, street, house_no] and parameter <i>outlvls</i> contains value <i>state</i> or parameter <i>outlvls</i> contains value <i>self</i> and field <i>level</i> =state; detailed information on administrative level 2 (state, region, federal republic etc.) Note: In case of fulfilled conditions mentioned above, output is conditioned by existence of administrative level in country
{	
id	always given; record ID
descr	always given; name of state/region etc. (meaning may vary)

descrtr	always given; name of state/region etc. (meaning may vary) transliterated into ISO Latin 1 character set
levelname	always given; name of administrative level 2 (state, region, federal republic etc.)
levelnametr	always given; name of administrative level 2 (state, region, federal republic etc.) transliterated into ISO Latin 1 character set
pos	given if field <i>level</i> =state, parameter <i>geometry</i> =[1, 2] and parameter <i>outpos</i> =[1, 3]; coordinates (see structure <i>DT_POS</i>)
strpos	given if field <i>level</i> =state, parameter <i>geometry</i> =[1, 2] and parameter <i>outpos</i> =[2, 3]; coordinates in text form
geometrypolygon	given if field <i>level</i> =state and parameter <i>geometry</i> =2; detailed polygon of administrative level 2 in WKB format (Well known binary) encoded in base64
boundingbox	given if parameter <i>outpos</i> =[1, 3]; coordinates of bounding box (see structure <i>DT_BOUNDINGBOX</i>)
strboundingbox	given if parameter <i>outpos</i> =[2, 3]; coordinates of bounding box in text form (see structure <i>DT_STRBOUNDINGBOX</i>)
}	
county	given if field <i>level</i> =[county, city, street, house_no] and parameter <i>outlvls</i> contains value <i>county</i> or parameter <i>outlvls</i> contains value <i>self</i> and field <i>level</i> =county; detailed information on administrative level 3 (county etc.) Note: In case of fulfilled conditions mentioned above, output is conditioned by existence of administrative level in country
{	
id	always given; record ID
descr	always given; name of county etc. (meaning may vary)
descrtr	always given; name of county etc. (meaning may vary) transliterated into ISO Latin 1 character set
levelname	always given; name of administrative level 3 (county etc.)
levelnametr	always given; name of administrative level 3 (county etc.) transliterated into ISO Latin 1 character set
pos	given if field <i>level</i> =county, parameter <i>geometry</i> =[1, 2] and parameter <i>outpos</i> =[1, 3]; coordinates (see structure <i>DT_POS</i>)
strpos	given if field <i>level</i> =county, parameter <i>geometry</i> =[1, 2] and parameter <i>outpos</i> =[2, 3]; coordinates in text form
geometrypolygon	given if field <i>level</i> =county and parameter <i>geometry</i> =2; detailed polygon of administrative level 3 in WKB format encoded in base64
boundingbox	given if field parameter <i>outpos</i> =[1, 3]; coordinates of bounding box (see structure <i>DT_BOUNDINGBOX</i>)
strboundingbox	given if parameter <i>outpos</i> =[2, 3]; coordinates of bounding box in text form (see structure <i>DT_STRBOUNDINGBOX</i>)
}	
parentcity	given if field <i>level</i> =[city, street, house_no], parameter <i>outlvls</i> contains value <i>parent_city</i> , parameter <i>citynorm</i> =0 and field <i>ispart</i> in section <i>city</i> has a value 1; detailed information on city which contains city part referred in section <i>city</i>

{	
id	always given; record ID
descr	always given; city name
descrtr	always given; city name transliterated into ISO Latin 1 character set
levelname	always given; name of administrative level
levelnametr	always given; name of administrative level transliterated into ISO Latin 1 character set
}	
city	given if field <i>level</i> =[city, street, house_no] and parameter <i>outlvl</i> s contains value <i>city</i> or parameter <i>outlvl</i> s contains value <i>self</i> and field <i>level</i> =city; detailed information on the city or city part
{	
id	always given; record ID
descr	always given; city or city part name
descrtr	always given; city or city part name transliterated into ISO Latin 1 character set
levelname	always given; name of administrative level
levelnametr	always given; name of administrative level transliterated into ISO Latin 1 character set
ispart	always given; flag indicating whether city is a city part
pos	given if field <i>level</i> =city, parameter <i>geometry</i> =[1, 2] and parameter <i>outpos</i> =[1, 3]; coordinates (see structure DT_POS)
strpos	given if field <i>level</i> =city, parameter <i>geometry</i> =[1, 2] and parameter <i>outpos</i> =[2, 3]; coordinates in text form
geometripolygon	given if field <i>level</i> =city and parameter <i>geometry</i> =2; detailed city polygon or city part in WKB format (Well known binary) encoded in base64
geometripolygonbua	given if field <i>level</i> =city and parameter <i>geometry</i> =2; detailed polygon of city built-up area in WKB format (Well known binary) encoded in base64
boundingbox	given if parameter <i>outpos</i> =[1, 3]; coordinates of bounding box of city or city part (see structure DT_BOUNDINGBOX)
strboundingbox	given if parameter <i>outpos</i> =[2, 3]; coordinates of city or city part bounding box in text form (see structure DT_STRBOUNDINGBOX)
boundingboxbua	given if parameter <i>outpos</i> =[1, 3]; coordinates of bounding box of city built-up area (see structure DT_BOUNDINGBOX)
strboundingboxbua	given if parameter <i>outpos</i> =[2, 3]; coordinates of bounding box of city built-up area in text form (see structure DT_STRBOUNDINGBOX)
}	
citypart	given if field <i>level</i> =[city, street, house_no], parameter <i>outlvl</i> s contains value <i>city_part</i> and parameter <i>citynorm</i> =1; detailed information on city part Note: In case of fulfilled conditions mentioned above, output is conditioned by fact, whether searched record is a city part or not
{	
id	always given; record ID
descr	always given; city part name
descrtr	always given; city part name transliterated into ISO Latin 1 character set
levelname	always given; name of administrative level



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levelnametr	always given; name of administrative level transliterated into ISO Latin 1 character set
ispart	always given; flag indicating whether city is a city part
pos	given if field <i>level</i> =city, parameter <i>geometry</i> =[1, 2] and parameter <i>outpos</i> =[1, 3]; coordinates (see structure <i>DT_POS</i>)
strpos	given if field <i>level</i> =city, parameter <i>geometry</i> =[1, 2] and parameter <i>outpos</i> =[2, 3]; coordinates in text form
geometrypolygon	given if field <i>level</i> =city and parameter <i>geometry</i> =2; detailed polygon of city part in WKB format (Well known binary) encoded in base64
geometrypolygonbua	given if field <i>level</i> =city and parameter <i>geometry</i> =2; detailed polygon of city part built-up area in WKB format (Well known binary) encoded in base64
boundingbox	given if parameter <i>outpos</i> =[1, 3]; coordinates of city part bounding box (see structure <i>DT_BOUNDINGBOX</i>)
strboundingbox	given if parameter <i>outpos</i> =[2, 3]; coordinates of city part bounding box in text form (see structure <i>DT_STRBOUNDINGBOX</i>)
boundingboxbua	given if parameter <i>outpos</i> =[1, 3]; coordinates of city part built-up area bounding box (see structure <i>DT_BOUNDINGBOX</i>)
strboundingboxbua	given if parameter <i>outpos</i> =[2, 3]; coordinates of city part built-up area bounding box in text form (see structure <i>DT_STRBOUNDINGBOX</i>)
}	
street	given if field <i>level</i> =[street, house_no] and parameter <i>outlvls</i> contains value <i>street</i> or parameter <i>outlvls</i> contains value <i>self</i> and field <i>level</i> =street; detailed information on street
{	
id	always given; record ID
descr	always given; street name
descrtr	always given; street name transliterated into ISO Latin 1 character set
pos	given if field <i>level</i> =street, parameter <i>geometry</i> =[1, 2] and parameter <i>outpos</i> =[1, 3]; coordinates (see structure <i>DT_POS</i>)
strpos	given if field <i>level</i> =street, parameter <i>geometry</i> =[1, 2] and parameter <i>outpos</i> =[2, 3]; coordinates in text form
geometryline	given if field <i>level</i> =street and parameter <i>geometry</i> =2; detailed line street in WKB format (Well known binary) encoded in base64
boundingbox	given if parameter <i>outpos</i> =[1, 3]; coordinates of bounding box of street (see structure <i>DT_BOUNDINGBOX</i>)
strboundingbox	given if parameter <i>outpos</i> =[2, 3]; coordinates of bounding box of street in text form (see structure <i>DT_STRBOUNDINGBOX</i>)
}	
house_no	given if field <i>level</i> =house_no and parameter <i>outlvls</i> contains value <i>house_no</i> or parameter <i>outlvls</i> contains value <i>self</i> and field <i>level</i> =house_no; detailed information on house number
{	
id	always given; record ID
descr	always given; house number
postcode	always given; post code



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pos	given if parameter <i>geometry</i> =[1, 2] and parameter <i>outpos</i> =[1, 3]; coordinates (see structure <i>DT_POS</i>)
strpos	given if parameter <i>geometry</i> =[1, 2] and parameter <i>outpos</i> =[2, 3]; coordinates in text form
housenodescriptive	always given; house number part - descriptive number
housenoorientation	always given; house number part - orientation number
housenoregistration	always given; house number part - registration number
housenoreplacement	always given; house number part - replacement number
}	
}, ...]	
}	

21.3 HTTP POST FORM - PARAMETERS

see [HTTP GET - parameters](#)

21.4 HTTP POST FORM - RESPONSE

see [HTTP GET - response](#)

21.5 HTTP POST XML - PARAMETERS

21.5.1 URL PARAMETERS

ver	mandatory; interface version Fixed value: 4
cmd	mandatory; method name Fixed value: „detail“

21.5.2 REQUEST BODY

<options>	
<id>	mandatory; search ID
<outproj>	optional; projection of output coordinates Default value: WGS-84
<outpos>	optional; required coordinate format definition Default value: 1 Allowed values:
0	Output contains no coordinates
1	Output coordinates in structure
2	Output coordinates in text form
3	Output coordinates in both - structure and text - form
<geometry>	optional; required type of geometry Default value: 1

	<p>Allowed values:</p> <table border="1"> <tr> <td>0</td> <td>Output contains no geometry</td> </tr> <tr> <td>1</td> <td>Output contains a point geometry</td> </tr> <tr> <td>2</td> <td>Output contains point and line geometry or polygon geometry.</td> </tr> </table> <p>Note: Depending on the contractual restrictions output of the line or polygon geometry can be disabled. In case it's allowed, the geometry is provided as WKB encoded in base64.</p>	0	Output contains no geometry	1	Output contains a point geometry	2	Output contains point and line geometry or polygon geometry.														
0	Output contains no geometry																				
1	Output contains a point geometry																				
2	Output contains point and line geometry or polygon geometry.																				
<citynorm>	<p>optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values:</p> <table border="1"> <tr> <td>0</td> <td>Off</td> </tr> <tr> <td>1</td> <td>On</td> </tr> </table>	0	Off	1	On																
0	Off																				
1	On																				
<outlvls>	<p>optional; semicolon-separated list of required levels with details Default value: country;state;county;city;city_part;street;house_no Allowed values:</p> <table border="1"> <tr> <td>*</td> <td>All of the following values</td> </tr> <tr> <td>self</td> <td>ID self level (varies depending on ID)</td> </tr> <tr> <td>house_no</td> <td>House number</td> </tr> <tr> <td>street</td> <td>Street</td> </tr> <tr> <td>parent_city</td> <td>Parent city</td> </tr> <tr> <td>city</td> <td>City</td> </tr> <tr> <td>city_part</td> <td>City part</td> </tr> <tr> <td>county</td> <td>Administrative level 3 (county etc.)</td> </tr> <tr> <td>state</td> <td>Administrative level 2 (state, region etc.)</td> </tr> <tr> <td>country</td> <td>Administrative level 1 (country)</td> </tr> </table>	*	All of the following values	self	ID self level (varies depending on ID)	house_no	House number	street	Street	parent_city	Parent city	city	City	city_part	City part	county	Administrative level 3 (county etc.)	state	Administrative level 2 (state, region etc.)	country	Administrative level 1 (country)
*	All of the following values																				
self	ID self level (varies depending on ID)																				
house_no	House number																				
street	Street																				
parent_city	Parent city																				
city	City																				
city_part	City part																				
county	Administrative level 3 (county etc.)																				
state	Administrative level 2 (state, region etc.)																				
country	Administrative level 1 (country)																				
<nonlatout>	<p>optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 2 Allowed values:</p> <table border="1"> <tr> <td>1</td> <td>Allowed</td> </tr> <tr> <td>2</td> <td>Disabled</td> </tr> </table>	1	Allowed	2	Disabled																
1	Allowed																				
2	Disabled																				
<defcntry>	<p>optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes</p>																				
<alnlng>	<p>optional; language of administrative levels name Default value: CZE Allowed values:</p> <table border="1"> <tr> <td>CZE</td> <td>Czech</td> </tr> <tr> <td>ENG</td> <td>English</td> </tr> <tr> <td>DEF</td> <td>Country's default language</td> </tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language														
CZE	Czech																				
ENG	English																				
DEF	Country's default language																				
<auser>	optional; user name to access the service (if authorization is used)																				
<apass>	optional; password to access the service (if authorization is used)																				
<reqid>	optional; used to transfer any value from input to output of the service																				
<output>	<p>optional; output type Default value: xml Allowed values:</p> <table border="1"> <tr> <td>xml</td> <td>Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.</td> </tr> </table>	xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.																		
xml	Output is XML document with the document element „searchresults“ and each item in <i>results</i> field is wrapped by „item“ element.																				

	js	Output is JavaScript object Notice: In case of passing unsupported value the service returns HTTP status 400
<callback>		optional, makes sense only when using parameter <i>output=js</i> ; name of callback function to be called
</options>		

21.6 HTTP POST XML - RESPONSE

see [HTTP GET - response](#)

21.7 SOAP - PARAMETERS

SOAP interface Method: Detail

ID		mandatory; search ID
OutputProjection		optional; projection of output coordinates Default value: WGS-84
OutputPosition		optional; required coordinate format definition Default value: 1 Allowed values:
	0	Output contains no coordinates
	1	Output coordinates in structure
	2	Output coordinates in text form
	3	Output coordinates in both - structure and text - form
GeometryType		optional; required type of geometry Default value: 1 Allowed values:
	0	Output contains no geometry
	1	Output contains a point geometry
	2	Output contains point and line geometry or polygon geometry.
	Note: Depending on the contractual restrictions output of the line or polygon geometry can be disabled. In case it's allowed, the geometry is provided as WKB encoded in base64.	
CityNormalization		optional; flag whether city normalization is required (city parts are returned individually and not in city section) Default value: 0 Allowed values:
	0	Off
	1	On
OutputLevels		optional; semicolon-separated list of required levels with details Default value: country;state;county;city;city_part;street;house_no Allowed values:
	*	All of the following values
	self	ID self level (varies depending on ID)
	house_no	House number
	street	Street
	parent_city	Parent city



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	<table border="1"> <tr><td>city</td><td>City</td></tr> <tr><td>city_part</td><td>City part</td></tr> <tr><td>county</td><td>Administrative level 3 (county etc.)</td></tr> <tr><td>state</td><td>Administrative level 2 (state, region etc.)</td></tr> <tr><td>country</td><td>Administrative level 1 (country)</td></tr> </table>	city	City	city_part	City part	county	Administrative level 3 (county etc.)	state	Administrative level 2 (state, region etc.)	country	Administrative level 1 (country)
city	City										
city_part	City part										
county	Administrative level 3 (county etc.)										
state	Administrative level 2 (state, region etc.)										
country	Administrative level 1 (country)										
AllowNonLatinOutput	<p>optional; flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic etc.) Default value: 2 Allowed values:</p> <table border="1"> <tr><td>1</td><td>Allowed</td></tr> <tr><td>2</td><td>Disabled</td></tr> </table>	1	Allowed	2	Disabled						
1	Allowed										
2	Disabled										
DefaultCountry	<p>optional; default country (if search result is different from default country, abbreviation of the particular country is included in output) Default value: CZE Allowed values: ISO 3166-1 alpha 3 codes</p>										
AdminLevelNameLang	<p>optional; language of administrative levels name Default value: CZE Allowed values:</p> <table border="1"> <tr><td>CZE</td><td>Czech</td></tr> <tr><td>ENG</td><td>English</td></tr> <tr><td>DEF</td><td>Country's default language</td></tr> </table>	CZE	Czech	ENG	English	DEF	Country's default language				
CZE	Czech										
ENG	English										
DEF	Country's default language										
User	optional; user name to access the service (if authorization is used)										
Password	optional; password to access the service (if authorization is used)										
ReqID	optional; used to transfer any value from input to output of the service										

21.8 SOAP - RESPONSE

Request	list of input parameters												
{													
Version	always given; interface version												
ReqID	given if <i>ReqID</i> parameter is passed in; <i>ReqID</i> parameter value												
ID	always given; <i>ID</i> parameter value												
}													
Response													
{													
Error	<p>always given; error code Possible values:</p> <table border="1"> <tr><td>0</td><td>Operation finished with no error</td></tr> <tr><td>-1</td><td>Invalid argument (parameter value, missing parameter etc.)</td></tr> <tr><td>-2</td><td>Authorization error</td></tr> <tr><td>-3</td><td>Unsupported method</td></tr> <tr><td>-10</td><td>Internal error</td></tr> <tr><td>-101</td><td>No search results</td></tr> </table>	0	Operation finished with no error	-1	Invalid argument (parameter value, missing parameter etc.)	-2	Authorization error	-3	Unsupported method	-10	Internal error	-101	No search results
0	Operation finished with no error												
-1	Invalid argument (parameter value, missing parameter etc.)												
-2	Authorization error												
-3	Unsupported method												
-10	Internal error												
-101	No search results												
ErrorMessage	always given; error message												
Detail	given if <i>Error</i> =0; result												
{													
ID	always given; record ID												
Descr	always given; description												

DescrEx	always given; extended description												
Capabilities	always given; result properties (see structure DT_SOAP_CAPABILITIES)												
Level	always given; result level Possible values: <table border="1"> <tr> <td>country</td> <td>administrative level 1 (country)</td> </tr> <tr> <td>state</td> <td>administrative level 2 (e.g. state, region, federal republic)</td> </tr> <tr> <td>county</td> <td>administrative level 3 (e.g. county)</td> </tr> <tr> <td>city</td> <td>city, city part</td> </tr> <tr> <td>street</td> <td>street</td> </tr> <tr> <td>house_no</td> <td>house number</td> </tr> </table>	country	administrative level 1 (country)	state	administrative level 2 (e.g. state, region, federal republic)	county	administrative level 3 (e.g. county)	city	city, city part	street	street	house_no	house number
country	administrative level 1 (country)												
state	administrative level 2 (e.g. state, region, federal republic)												
county	administrative level 3 (e.g. county)												
city	city, city part												
street	street												
house_no	house number												
Country	given if parameter OutputLevels contains value country or parameter OutputLevels contains value self and field Level =country; detailed information on administrative level 1 (country)												
{													
ID	always given; record ID												
Descr	always given; country name												
DescrTr	always given; country name transliterated into ISO Latin 1 character set												
ISOCODEA3	always given; country ISO 3166-1 alpha 3 code												
ISOCODEA2	always given; country ISO 3166-1 alpha 2 code												
ISOCODEN	always given; country ISO 3166-1 numeric code												
IVRC	always given; country code used for registration plates of vehicles												
ISODescrCZE	always given; full country name in czech language												
ISOShortDescrCZE	always given; abbreviated country name in czech language												
ISODescrENG	always given; full country name in english language												
ISOShortDescrENG	always given; abbreviated country name in english language												
Pos	given if field Level =country, parameter GeometryType =[1, 2] and parameter OutputPosition =[1, 3]; coordinates (see structure DT_SOAP_POS)												
StrPos	given if field Level =country, parameter GeometryType =[1, 2] and parameter OutputPosition =[2, 3]; coordinates in text form												
GeometryPolygon	given if field Level =country and parameter GeometryType =2; detailed country polygon in WKB format (Well known binary) encoded in base64												
BoundingBox	given if parameter OutputPosition =[1, 3]; coordinates of country bounding box (see structure DT_SOAP_BOUNDINGBOX)												
StrBoundingBox	given if parameter OutputPosition =[2, 3]; coordinates of country bounding box in text form form (see structure DT_SOAP_STRBOUNDINGBOX)												
}													
State	given if field Level =[state, county, city, street, house_no] and parameter OutputLevels contains value state or parameter OutputLevels contains value self and field Level =state; detailed information on administrative level 2 (state, region, federal republic etc.) Note: In case of fulfilled conditions mentioned above, output is conditioned by existence of administrative level in country												
{													
ID	always given; record ID												
Descr	always given; name of state/region etc. (meaning may vary)												
DescrTr	always given; name of state/region etc. (meaning may vary)												



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	transliterated into ISO Latin 1 character set
LevelName	always given; name of administrative level 2 (state, region, federal republic etc.)
LevelNameTr	always given; name of administrative level 2 (state, region, federal republic etc.) transliterated into ISO Latin 1 character set
Pos	given if field <i>Level</i> =state, parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[1, 3]; coordinates (see structure <i>DT_SOAP_POS</i>)
StrPos	given if field <i>Level</i> =state, parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[2, 3]; coordinates in text form
GeometryPolygon	given if field <i>Level</i> =state and parameter <i>GeometryType</i> =2; detailed polygon of administrative level 2 in WKB format (Well known binary) encoded in base64
BoundingBox	given if parameter <i>OutputPosition</i> =[1, 3]; coordinates of bounding box (see structure <i>DT_SOAP_BOUNDINGBOX</i>)
StrBoundingBox	given if parameter <i>OutputPosition</i> =[2, 3]; coordinates of bounding box in text form (see structure <i>DT_SOAP_STRBOUNDINGBOX</i>)
}	
County	given if field <i>Level</i> =[county, city, street, house_no] and parameter <i>OutputLevels</i> contains value <i>county</i> or parameter <i>OutputLevels</i> contains value <i>self</i> and field <i>Level</i> =county; detailed information on administrative level 3 (county, region etc.) Note: In case of fulfilled conditions mentioned above, output is conditioned by existence of administrative level in country
{	
ID	always given; record ID
Descr	always given; name of county etc. (meaning may vary)
DescrTr	always given; name of county etc. (meaning may vary) transliterated into ISO Latin 1 character set
LevelName	always given; name of administrative level 3 (county etc.)
LevelNameTr	always given; name of administrative level 3 (county etc.) transliterated into ISO Latin 1 character set
Pos	given if field <i>Level</i> =county, parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[1, 3]; coordinates (see structure <i>DT_SOAP_POS</i>)
StrPos	given if field <i>Level</i> =county, parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[2, 3]; coordinates in text form
GeometryPolygon	given if field <i>Level</i> =county and parameter <i>GeometryType</i> =2; detailed polygon of administrative level 3 in WKB format encoded in base64
BoundingBox	given if field parameter <i>outpos</i> =[1, 3]; coordinates of bounding box (see structure <i>DT_SOAP_BOUNDINGBOX</i>)
StrBoundingBox	given if parameter <i>OutputPosition</i> =[2, 3]; coordinates of bounding box in text form (see structure <i>DT_SOAP_STRBOUNDINGBOX</i>)
}	
ParentCity	given if field <i>Level</i> =[city, street, house_no], parameter <i>OutputLevels</i> contains value <i>parent_city</i> , parameter <i>CityNormalization</i> =0 and field <i>IsPart</i> in section <i>City</i> has a value 1; detailed information on city which contains city part referred in section <i>City</i>
{	



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ID	always given; record ID
Descr	always given; city name
DescrTr	always given; city name transliterated into ISO Latin 1 character set
LevelName	always given; name of administrative level
LevelNameTr	always given; name of administrative level transliterated into ISO Latin 1 character set
}	
City	given if field <i>Level</i> =[city, street, house_no] and parameter <i>OutputLevels</i> contains value <i>city</i> or parameter <i>OutputLevels</i> contains value <i>self</i> and field <i>Level</i> =city; detailed information on the city or city part
{	
ID	always given; record ID
Descr	always given; city or city part name
DescrTr	always given; city or city part name transliterated into ISO Latin 1 character set
LevelName	always given; name of administrative level
LevelNameTr	always given; name of administrative level transliterated into ISO Latin 1 character set
IsPart	always given; flag indicating whether city is a city part
Pos	given if field <i>Level</i> =city, parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[1, 3]; coordinates (see structure <i>DT_SOAP_POS</i>)
StrPos	given if field <i>Level</i> =city, parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[2, 3]; coordinates in text form
GeometryPolygon	given if field <i>Level</i> =city and parameter <i>GeometryType</i> =2; detailed city polygon or city part in WKB format (Well known binary) encoded in base64
GeometryPolygonBUA	given if field <i>Level</i> =city and parameter <i>GeometryType</i> =2; detailed polygon of city built-up area in WKB format (Well known binary) encoded in base64
BoundingBox	given if parameter <i>OutputPosition</i> =[1, 3]; coordinates of bounding box of city or city part (see structure <i>DT_SOAP_BOUNDINGBOX</i>)
StrBoundingBox	given if parameter <i>OutputPosition</i> =[2, 3]; coordinates of city or city part bounding box in text form (see structure <i>DT_SOAP_STRBOUNDINGBOX</i>)
BoundingBoxBUA	given if parameter <i>OutputPosition</i> =[1, 3]; coordinates of bounding box of city built-up area (see structure <i>DT_SOAP_BOUNDINGBOX</i>)
StrBoundingBoxBUA	given if parameter <i>OutputPosition</i> =[2, 3]; coordinates of bounding box of city built-up area in text form (see structure <i>DT_SOAP_STRBOUNDINGBOX</i>)
}	
CityPart	given if field <i>Level</i> =[city, street, house_no], parameter <i>OutputLevels</i> contains value <i>city_part</i> and parameter <i>CityNormalization</i> =1; detailed information on city part Note: In case of fulfilled conditions mentioned above, output is conditioned by fact, whether searched record is a city part or not
{	
ID	always given; record ID
Descr	always given; city part name
DescrTr	always given; city part name transliterated into ISO Latin 1 character set



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LevelName	always given; name of administrative level
LevelNameTr	always given; name of administrative level transliterated into ISO Latin 1 character set
IsPart	always given; flag indicating whether city is a city part
Pos	given if field <i>Level</i> =city, parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[1, 3]; coordinates (see structure <i>DT_SOAP_POS</i>)
StrPos	given if field <i>Level</i> =city, parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[2, 3]; coordinates in text form
GeometryPolygon	given if field <i>Level</i> =city and parameter <i>GeometryType</i> =2; detailed polygon of city part in WKB format (Well known binary) encoded in base64
GeometryPolygonBUA	given if field <i>Level</i> =city and parameter <i>GeometryType</i> =2; detailed polygon of city part built-up area in WKB format (Well known binary) encoded in base64
BoundingBox	given if parameter <i>OutputPosition</i> =[1, 3]; coordinates of city part bounding box (see structure <i>DT_SOAP_BOUNDINGBOX</i>)
StrBoundingBox	given if parameter <i>OutputPosition</i> =[2, 3]; coordinates of city part bounding box in text form (see structure <i>DT_SOAP_STRBOUNDINGBOX</i>)
BoundingBoxBUA	given if parameter <i>OutputPosition</i> =[1, 3]; coordinates of city part built-up area bounding box (see structure <i>DT_SOAP_BOUNDINGBOX</i>)
StrBoundingBoxBUA	given if parameter <i>OutputPosition</i> =[2, 3]; coordinates of city part built-up area bounding box in text form (see structure <i>DT_SOAP_STRBOUNDINGBOX</i>)
}	
Street	given if field <i>Level</i> =[street, house_no] and parameter <i>OutputLevels</i> contains value <i>street</i> or parameter <i>OutputLevels</i> contains value <i>self</i> and field <i>Level</i> =street; detailed information on street
{	
ID	always given; record ID
Descr	always given; street name
DescrTr	always given; street name transliterated into ISO Latin 1 character set
Pos	given if field <i>Level</i> =street, parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[1, 3]; coordinates (see structure <i>DT_SOAP_POS</i>)
StrPos	given if field <i>Level</i> =street, parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[2, 3]; coordinates in text form
GeometryLine	given if field <i>Level</i> =street and parameter <i>GeometryType</i> =2; detailed line street in WKB format (Well known binary) encoded in base64
BoundingBox	given if parameter <i>OutputPosition</i> =[1, 3]; coordinates of bounding box of street (see structure <i>DT_SOAP_BOUNDINGBOX</i>)
StrBoundingBox	given if parameter <i>OutputPosition</i> =[2, 3]; coordinates of bounding box of street in text form (see structure <i>DT_SOAP_STRBOUNDINGBOX</i>)
}	
HouseNo	given if field <i>Level</i> =house_no and parameter <i>OutputLevels</i> contains value <i>house_no</i> or parameter <i>OutputLevels</i> contains value <i>self</i> and field <i>Level</i> =house_no; detailed information on house number
{	
ID	always given; record ID



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Descr	always given; house number
PostCode	always given; post code
Pos	given if parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[1, 3]; coordinates (see structure <i>DT_SOAP_POS</i>)
StrPos	given if parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[2, 3]; coordinates in text form
HouseNoDescriptive	always given; house number part - descriptive number
HouseNoOrientation	always given; house number part - orientation number
HouseNoRegistration	always given; house number part - registration number
HouseNoReplacement	always given; house number part - replacement number
}	
}, ...]	
}	

21.9 EXAMPLES

21.9.1 HTTP GET

Request:

<http://services.position.cz/search/?cmd=detail&ver=4&id=city;545981092>

Response:

```
<?xml version="1.0" encoding="UTF-8"?>
<searchresults>
  <request>
    <version>4</version>
    <cmd>detail</cmd>
    <id>city;545981092</id>
  </request>
  <response>
    <error>0</error>
    <errormessage />
    <detail>
      <id>city;545981092</id>
      <descr>Praha</descr>
      <descresx>okres Hlavní Město Praha</descresx>
      <capabilities>
        <detail>1</detail>
        <boundingbox>1</boundingbox>
        <geometrypolygon>1</geometrypolygon>
      </capabilities>
      <level>city</level>
      <country>
        <id>country;20427915</id>
        <descr>Česko</descr>
        <descrtr>Cesko</descrtr>
        <isocodea3>CZE</isocodea3>
        <isocodea2>CZ</isocodea2>
        <isocoden>203</isocoden>
        <ivrc>CZ</ivrc>
        <isodescsrcze>Česká republika</isodescsrcze>
        <isoshortdescsrcze>Česko</isoshortdescsrcze>
      </country>
    </detail>
  </response>
</searchresults>
```



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```
<isodescreng>Czech Republic</isodescreng>
<isoshortdescreng>Czech Republic</isoshortdescreng>
</country>
<state>
  <id>state;20442647</id>
  <descr>Hlavní Město Praha</descr>
  <descrtr>Hlavni Mesto Praha</descrtr>
  <levelname>kraj</levelname>
  <levelnametr>kraj</levelnametr>
</state>
<county>
  <id>county;20442648</id>
  <descr>Hlavní Město Praha</descr>
  <descrtr>Hlavni Mesto Praha</descrtr>
  <levelname>okres</levelname>
  <levelnametr>okres</levelnametr>
</county>
<city>
  <id>city;545981092</id>
  <descr>Praha</descr>
  <descrtr>Praha</descrtr>
  <levelname>obec</levelname>
  <levelnametr>obec</levelnametr>
  <ispart>0</ispart>
  <pos>
    <proj>WGS-84</proj>
    <lat>50.07913</lat>
    <lon>14.43302</lon>
  </pos>
  <boundingbox>
    <min>
      <proj>WGS-84</proj>
      <lat>49.94172</lat>
      <lon>14.22409</lon>
    </min>
    <max>
      <proj>WGS-84</proj>
      <lat>50.17745</lat>
      <lon>14.70672</lon>
    </max>
  </boundingbox>
</city>
</detail>
</response>
</searchresults>
```

21.9.2 HTTP POST XML

Request:

<http://services.position.cz/search/?cmd=detail&ver=4>

POST data:

```
<?xml version="1.0" encoding="utf-8"?>
<options>
```



Position s.r.o.

Londýnská 665/45, 120 00 Praha 2

<http://www.position.cz>

```
<id>city;545981092</id>
</options>
```

Response:

```
<?xml version="1.0" encoding="UTF-8"?>
<searchresults>
  <request>
    <version>4</version>
    <cmd>detail</cmd>
    <id>city;545981092</id>
  </request>
  <response>
    <error>0</error>
    <errormessage />
    <detail>
      <id>city;545981092</id>
      <descr>Praha</descr>
      <descresx>okres Hlavní Město Praha</descresx>
      <capabilities>
        <detail>1</detail>
        <boundingbox>1</boundingbox>
        <geometrypolygon>1</geometrypolygon>
      </capabilities>
      <level>city</level>
      <country>
        <id>country;20427915</id>
        <descr>Česko</descr>
        <descrtr>Cesko</descrtr>
        <isocodea3>CZE</isocodea3>
        <isocodea2>CZ</isocodea2>
        <isocoden>203</isocoden>
        <ivrc>CZ</ivrc>
        <isodescsrcze>Česká republika</isodescsrcze>
        <isoshortdescsrcze>Česko</isoshortdescsrcze>
        <isodescreng>Czech Republic</isodescreng>
        <isoshortdescreng>Czech Republic</isoshortdescreng>
      </country>
      <state>
        <id>state;20442647</id>
        <descr>Hlavní Město Praha</descr>
        <descrtr>Hlavni Mesto Praha</descrtr>
        <levelname>kraj</levelname>
        <levelnametr>kraj</levelnametr>
      </state>
      <county>
        <id>county;20442648</id>
        <descr>Hlavní Město Praha</descr>
        <descrtr>Hlavni Mesto Praha</descrtr>
        <levelname>okres</levelname>
        <levelnametr>okres</levelnametr>
      </county>
      <city>
        <id>city;545981092</id>
        <descr>Praha</descr>
        <descrtr>Praha</descrtr>
```



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<http://www.position.cz>

```
<levelname>obec</levelname>
<levelnametr>obec</levelnametr>
<ispart>0</ispart>
<pos>
  <proj>WGS-84</proj>
  <lat>50.07913</lat>
  <lon>14.43302</lon>
</pos>
<boundingbox>
  <min>
    <proj>WGS-84</proj>
    <lat>49.94172</lat>
    <lon>14.22409</lon>
  </min>
  <max>
    <proj>WGS-84</proj>
    <lat>50.17745</lat>
    <lon>14.70672</lon>
  </max>
</boundingbox>
</city>
</detail>
</response>
</searchresults>
```