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2 HISTORY

Version	Published	Author	Description
1.0	13.9.2013	M. Tomeš	
1.1	7.10.2013	M. Tomeš	Added search_postcode (SOAP: SearchPostCode) method Added postcode parameter to search_comp method



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

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: WSDL can be obtained by adding URL parameter "WSDL"



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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
JavaScript	Output is JavaScript object
JavaScript function	Output is JavaScript code, that will call a function which name is passed using special parameter Example: <code>if (typeof myfunction=='function') myfunction({...});</code>



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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_SOAP_CAPABILITIES



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{	
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
}	

4.6 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
}	

4.7 DT_SOAP_BOUNDINGBOX

{	
Min	see structure DT_SOAP_POS
Max	see structure DT_SOAP_POS
}	

4.8 DT_SOAP_STRBOUNDINGBOX

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

5 LINE ADDRESS SEARCH

5.1 HTTP GET - PARAMETERS

ver	mandatory, interface version Fixed value: 2								
cmd	mandatory, method name Fixed value: „search“								
text	mandatory, search text								
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" 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:								



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	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)
	ctrysdescrcz	Full country name in Czech language
	ctrydescrcz	Abbreviated country name in Czech language
	ctrysdescren	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
	hnpot	Post code
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:	
	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	

	<p>Default value: xml</p> <p>Allowed values:</p> <table border="0"> <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	<p>Notice: In case of passing unsupported value the service returns HTTP status 400</p> <p>optional, makes sense only when using parameter <i>output</i>=js, name of callback function to be called</p>				

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</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																								
}																									
response																									
{																									
error	<p>always given, error code</p> <p>Possible values:</p> <table border="0"> <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																								
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-101	No result found																								
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-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																								



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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], text form coordinates												
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>lv</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>ctrysdescrcz</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>ctrysdescren</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, city part 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 (city part) 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, parent city 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 (parent city) 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>hnpot</i> and results are from level „house_no“ and lower, post code
{, ...]	
}	

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: 2
cmd	mandatory, method name Fixed value: „search“

5.5.2 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">1. If given at least one of parameters <i>pgn</i> - <i>pgs</i>, value 1 is used2. If given at least one of parameters <i>from</i> - <i>to</i>, value 2 is used3. 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</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																																								
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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: <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>ctrysdescrcz</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>ctrysdescren</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>hnpot</td><td>Post code</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)	ctrysdescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrysdescren	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	hnpot	Post code
*	All of the following values																																																
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strdescr	Street name																																																
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hnpot	Post code																																																
<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																																										
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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" style="margin-left: 20px;"> <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)						
<pass>	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" style="margin-left: 20px;"> <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						
</options>							

5.6 HTTP POST XML - RESPONSE

see HTTP GET - response

5.7 SOAP - PARAMETERS

SOAP interface method: Search

Text	mandatory, search text				
PagingType	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>PageNumber</i> - <i>PageSize</i>, value 1 is used 2. If given at least one of parameters <i>RecordFrom</i> - <i>RecordTo</i>, value 2 is used 3. In all other cases value 3 is used <p>Allowed values:</p> <table border="1" style="margin-left: 20px;"> <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 the value of this flag is always 0!!!</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	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																										
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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" 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																											
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" style="margin-left: 20px;"> <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" style="margin-left: 20px;"> <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>ctrysdescrcz</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>ctrysdescren</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> </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)	ctrysdescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrysdescren	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)
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ctydescr	County name etc. (meaning may vary)																											

	ctyaln citydescr cityaln cityispart cityptdescr cityptaln pcitydescr pcityaln strdescr hndescr hnpot	Name of administrative level 3 (e.g. county) City name Name of administrative level 4 (city, city part etc.) Flag indicating whether city is a city part City part name Name of administrative level (city part) Parent city name Name of administrative level (parent city) Street name House number Post code						
AllowNonLatinOutput	optional, flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic, etc.) Default value: 3 Allowed values: <table border="1" style="margin-left: 20px;"> <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" style="margin-left: 20px;"> <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							

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
}	
Response	



Position s.r.o.

Londýnská 665/45, 120 00 Praha 2

<http://www.position.cz>

{																									
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	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_SOAP_CAPABILITIES)																								
Pos	given if parameter <i>OutputPosition</i> =[1, 3], coordinates (see structure DT_SOAP_POS)																								
StrPos	given if parameter <i>OutputPosition</i> =[2, 3], text form coordinates																								
BoundingBox	given if <i>Capabilities</i> contains item <i>BoundingBox</i> and parameter <i>OutputPosition</i> =[1, 3], coordinates of bounding box (see structure DT_SOAP_BOUNDINGBOX)																								
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 DT_SOAP_STRBOUNDINGBOX)																								
Level	given if parameter <i>ResultFields</i> contains value <i>lvl</i> , result level																								
	Possible values:																								



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	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>ctrysdescrcz</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>ctrysdescren</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>pctydescr</i> and results are from level „city“ and lower, city part 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>pctyaln</i> and results are from level „city“ and lower, name of administrative level (city part)

	<p>Note: If the field <i>CityIsPart</i>=0 or parameter <i>CityNormalization</i>=1 content of this field is always empty</p>
CityPartDescr	<p>given if parameter <i>ResultFields</i> contains value <i>cityptdescr</i> and results are from level „city“ and lower, parent city name Note: If parameter <i>CityNormalization</i>=0 content of this field is always empty</p>
CityPartAdminLevelName	<p>given if parameter <i>ResultFields</i> contains value <i>cityptaln</i> and results are from level „city“ and lower, name of administrative level (parent city) Note: If parameter <i>CityNormalization</i>=0 content of this field is always empty</p>
StreetDescr	<p>given if parameter <i>ResultFields</i> contains value <i>strdescr</i> and results are from level „street“ and lower, street name</p>
HouseNoDescr	<p>given if parameter <i>ResultFields</i> contains value <i>hndescr</i> and results are from level „house_no“ and lower, house number</p>
HouseNoPostCode	<p>given if parameter <i>ResultFields</i> contains value <i>hnpot</i> and results are from level „house_no“ and lower, post code</p>
{, ...]	
}	

5.9 EXAMPLES

5.9.1 HTTP GET

Request:

http://services.position.cz/search/?cmd=search&ver=2&text=pihel&resfields=*

Response:

```
<searchresults>
  <request>
    <version>2</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>Pihel</descr>
        <descrex>okres Česká Lípa</descrex>
        <capabilities>
          <detail>1</detail>
          <boundingbox>1</boundingbox>
        </capabilities>
      </item>
    </results>
  </response>
</searchresults>
```



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```
<pos>
    <proj>WGS-84</proj>
    <lat>50.73198</lat>
    <lon>14.54671</lon>
</pos>
<boundingbox>
    <min>
        <proj>WGS-84</proj>
        <lat>50.71483</lat>
        <lon>14.5406</lon>
    </min>
    <max>
        <proj>WGS-84</proj>
        <lat>50.73604</lat>
        <lon>14.57386</lon>
    </max>
</boundingbox>
<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>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/>
</item>
</results>
</response>
</searchresults>
```

5.9.2 HTTP POST XML

Request:

<http://services.position.cz/search/?cmd=search&ver=2>

POST data:

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

Response:



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```
<searchresults>
  <request>
    <version>2</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>Pihel</descr>
        <descrex>okres Česká Lípa</descrex>
        <capabilities>
          <detail>1</detail>
          <boundingbox>1</boundingbox>
        </capabilities>
        <pos>
          <proj>WGS-84</proj>
          <lat>50.73198</lat>
          <lon>14.54671</lon>
        </pos>
        <boundingbox>
          <min>
            <proj>WGS-84</proj>
            <lat>50.71483</lat>
            <lon>14.5406</lon>
          </min>
          <max>
            <proj>WGS-84</proj>
            <lat>50.73604</lat>
            <lon>14.57386</lon>
          </max>
        </boundingbox>
        <level>city</level>
        <countryiso2>CZ</countryiso2>
        <countryiso3>CZE</countryiso3>
        <countryison>203</countryison>
        <countryivrc>CZ</countryivrc>
        <countryshortdescrcz>Česko</countryshortdescrcz>
        <countrydescrcz>Česká republika</countrydescrcz>
        <countryshortdescren>Czech Republic</countryshortdescren>
        <countrydescren>Czech Republic</countrydescren>
        <statedescr>Liberecký kraj</statedescr>
        <stateadminlevelname>kraj</stateadminlevelname>
        <countydescr>Česká Lípa</countydescr>
        <countyadminlevelname>okres</countyadminlevelname>
```



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```
<citydescr>Pihel</citydescr>
<cityadminlevelname>část obce</cityadminlevelname>
<cityispart>1</cityispart>
<parentcitydescr>Nový Bor</parentcitydescr>
<parentcityadminlevelname>obec</parentcityadminlevelname>
<citypartdescr/>
<citypartadminlevelname/>
</item>
</results>
</response>
</searchresults>
```

6 COMPONENT ADDRESS SEARCH

6.1 HTTP GET - PARAMETERS

ver	mandatory, interface version Fixed value: 2								
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" 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								



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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><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><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>ctrysdescrcz</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>ctrysdescren</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>hnpot</td><td>Post code</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)	ctrysdescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrysdescren	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	hnpot	Post 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																																																
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ctrysdescrcz	Full country name in Czech 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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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																																																
hnpot	Post code																																																
nonlatout	optional, flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic, etc.) Default value: 3 Allowed values: <table><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><tr><td>CZE</td><td>Czech</td></tr></table>	CZE	Czech																																														
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					
		Notice: In case of passing unsupported value the service returns HTTP status 400				
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

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												
}													
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 result found</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
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												



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<http://www.position.cz>

	-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], text form coordinates												
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>lv</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													
countryiso2		given if parameter <i>resfields</i> contains value <i>ctryisoa2</i> , country ISO 3166-1 alpha 2 code												
countryiso3		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>ctrysdescrcz</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>ctrysdescren</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, city part 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 (city part) 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, parent city 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 (parent city) 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
houseNodeDescr	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
} , ...]	
}	

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: 2
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 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>.</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> .
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 - 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>ctrysdescrcz</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>ctrysdescren</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)	ctrysdescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrysdescren	Full country name in English language	ctrydescren	Abbreviated country name in English language	stdescr	State/region etc. name (meaning may vary)
*	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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ctrydescrcz	Abbreviated country name in Czech language																							
ctrysdescren	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)
	pctydescr	Parent city name
	pctyaln	Name of administrative level (parent city)
	strdescr	Street name
	hndescr	House number
	hnpost	Post code
<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:	
	CZE	Czech
	ENG	English
	DEF	Country's default language
<causer>	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</i> =js, name of callback function to be called	
</options>		

¹ At least one of 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								
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"> 1. If given at least one of parameters <i>PageNumber</i> - <i>PageSize</i>, value 1 is used 2. If given at least one of parameters <i>RecordFrom</i> - <i>RecordTo</i>, value 2 is used 3. In all other cases value 3 is used <p>Allowed values:</p> <table border="1" style="width: 100%;"> <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" 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								
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)</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																																																
ResultFields	<p>optional, semicolon-separated list of required special fields in output</p> <p>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>ctrysdescrcz</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>ctrysdescren</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>pctydescr</td><td>Parent city name</td></tr> <tr> <td>pctyaln</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> </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)	ctrysdescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrysdescren	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)	pctydescr	Parent city name	pctyaln	Name of administrative level (parent city)	strdescr	Street name	hndescr	House number	hnpost	Post code
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lvl	Result level																																																
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hndescr	House number																																																
hnpost	Post code																																																
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 alphabet in input text is used</td></tr> </table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alphabet in input text is used																																										
1	Allowed																																																
2	Disabled																																																
3	Allowed only if non-latin alphabet 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> </table>	CZE	Czech																																														
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

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																						
}																							
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 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> </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)
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		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_SOAP_CAPABILITIES)												
Pos		given if parameter <i>OutputPosition</i> =[1, 3], coordinates (see structure DT_SOAP_POS)												
StrPos		given if parameter <i>OutputPosition</i> =[2, 3], text form coordinates												
BoundingBox		given if <i>Capabilities</i> contains item <i>BoundingBox</i> and parameter <i>OutputPosition</i> =[1, 3], coordinates of bounding box (see structure DT_SOAP_BOUNDINGBOX)												
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 DT_SOAP_STRBOUNDINGBOX)												
Level		given if parameter <i>ResultFields</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>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>ctrysdescrcz</i> , abbreviated country name in czech language												
CountryDescrCZ		given if parameter <i>ResultFields</i> contains value <i>ctrydescrcz</i> , full country												



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	name in czech language
CountryShortDescrEN	given if parameter <i>ResultFields</i> contains value <i>ctrysdescren</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, city part 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>pcyaln</i> and results are from level „city“ and lower, name of administrative level (city part) 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, parent city 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 (parent city) 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>hnpot</i> and results are from level „house_no“ and lower, post code
{, ...]	



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}

6.9 EXAMPLES

6.9.1 HTTP GET

Request:

http://services.position.cz/search/?cmd=search_comp&ver=2&country=CZE&city=liberec&street=neklanova&house_no=800&resfields=*

Response:

```
<searchresults>
  <request>
    <version>2</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>
  </request>
  <response>
    <error>0</error>
    <error_message/>
    <count>1</count>
    <prevavail>0</prevavail>
    <nextavail>0</nextavail>
    <results>
      <item>
        <id>house_no;102777081</id>
        <descr>Neklanova 800/13, Liberec</descr>
        <descrex>okres Liberec</descrex>
        <capabilities>
          <detail>1</detail>
        </capabilities>
        <pos>
          <proj>WGS-84</proj>
          <lat>50.789836</lat>
          <lon>15.069616</lon>
        </pos>
        <level>house_no</level>
        <countryiso2>CZ</countryiso2>
        <countryiso3>CZE</countryiso3>
        <countryison>203</countryison>
        <countryivrc>CZ</countryivrc>
        <countryshortdescrcz>Česko</countryshortdescrcz>
        <countrydescrcz>Česká republika</countrydescrcz>
        <countryshortdescren>Czech Republic</countryshortdescren>
      </item>
    </results>
  </response>
</searchresults>
```

```
<countrydesren>Czech Republic</countrydesren>
<statedescri>Liberecký kraj</statedescri>
<stateadminlevelname>kraj</stateadminlevelname>
<countydescri>Liberec</countydescri>
<countyadminlevelname>okres</countyadminlevelname>
<citydescr>Liberec</citydescr>
<cityadminlevelname>obec</cityadminlevelname>
<cityispart>0</cityispart>
<parentcitydescri/>
<parentcityadminlevelname/>
<citypartdescri/>
<citypartadminlevelname/>
<streetdescr>Neklanova</streetdescr>
<housendescri>800/13</housendescri>
<housenopostcode>460 14</housenopostcode>
</item>
</results>
</response>
</searchresults>
```

6.9.2 HTTP POST XML

Request:

http://services.position.cz/search/?cmd=search_comp&ver=2

POST data:

```
<?xml version="1.0" encoding="utf-8"?>
<options>
    <country>CZE</country>
    <city>test</city>
    <street>1</street>
    <house_no>777</house_no>
    <resfields>*</resfields>
</options>
```

Response:

```
<searchresults>
    <request>
        <version>2</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>
        <houseno>800</houseno>
    </request>
    <response>
        <error>0</error>
        <errormessage/>
        <count>1</count>
```



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```
<prevavail>0</prevavail>
<nextavail>0</nextavail>
<results>
  <item>
    <id>house_no;102777081</id>
    <descr>Neklanova 800/13, Liberec</descr>
    <descrex>okres Liberec</descrex>
    <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>
    <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>
  </item>
</results>
</response>
</searchresults>
```



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7 ADMINISTRATIVE LEVEL 1 SEARCH (COUNTRIES)

7.1 HTTP GET - PARAMETERS

Parameters are identical with the 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 with the 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: 2
cmd	mandatory, method name Fixed value: „search_country“

7.5.2 REQUEST BODY

Request body is identical with the 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 with the parameters of „Line address search“ (see SOAP - parameters)

7.8 SOAP - RESPONSE

Response is identical with the response of „Line address search“ (see SOAP - response)



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

8.1 HTTP GET - PARAMETERS

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

- parameter *cmd* has fixed value "search_state"

8.2 HTTP GET - RESPONSE

Response is identical with the 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: 2
cmd	mandatory, method name Fixed value: „search_state“

8.5.2 REQUEST BODY

Request body is identical with request body of „Line address search“ (see Request body)

8.6 HTTP POST XML - RESPONSE

see HTTP GET - response

8.7 SOAP - PARAMETERS

SOAP interface Method: SearchState

Parameters are identical with the parameters of „Line address search“ (see SOAP - parameters)

8.8 SOAP - RESPONSE

Response is identical with the response of „Line address search“ (see SOAP - response)



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9 ADMINISTRATIVE LEVEL 3 SEARCH (COUNTIES ETC.)

9.1 HTTP GET - PARAMETERS

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

- parameter *cmd* has fixed value "search_county"

9.2 HTTP GET - RESPONSE

RESPONSE is identical with the 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: 2
cmd	mandatory, method name Fixed value: „search_county“

9.5.2 REQUEST BODY

Request body is identical with the request body of „Line address search“ (see Request body)

9.6 HTTP POST XML - RESPONSE

see HTTP GET - response

9.7 SOAP - PARAMETERS

SOAP interface Method: SearchCounty

Parameters are identical with the parameters of „Line address search“ (see SOAP - parameters)

9.8 SOAP - RESPONSE

Response is identical with the response of „Line address search“ (see SOAP - response)



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10 CITY AND CITY PART SEARCH

10.1 HTTP GET - PARAMETERS

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

- parameter *cmd* has fixed value "search_city"

10.2 HTTP GET - RESPONSE

Response is identical with the 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: 2
cmd	mandatory, method name Fixed value: „search_city“

10.5.2 REQUEST BODY

Request body is identical with the request body of „Line address search“ (see Request body)

10.6 HTTP POST XML - RESPONSE

see HTTP GET - response

10.7 SOAP - PARAMETERS

SOAP interface Method: SearchCity

Parameters are identical with the parameters of „Line address search“ (see SOAP - parameters)

10.8 SOAP - RESPONSE

Response is identical with the response of „Line address search“ (see SOAP - response)



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11 POST CODE SEARCH

11.1 HTTP GET - PARAMETERS

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

- parameter *cmd* has fixed value "search_postcode"

11.2 HTTP GET - RESPONSE

Response is identical with the 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: 2
cmd	mandatory, method name Fixed value: „search_postcode“

11.5.2 REQUEST BODY

Request body is identical with the request body of „Line address search“ (see Request body)

11.6 HTTP POST XML - RESPONSE

see HTTP GET - response

11.7 SOAP - PARAMETERS

SOAP interface Method: SearchPostCode

Parameters are identical with the parameters of „Line address search“ (see SOAP - parameters)

11.8 SOAP - RESPONSE

Response is identical with the response of „Line address search“ (see SOAP - response)



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12 STREET SEARCH

12.1 HTTP GET - PARAMETERS

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

- parameter *cmd* has fixed value "search_street"

12.2 HTTP GET - RESPONSE

Response is identical with the 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: 2
cmd	mandatory, method name Fixed value: „search_street“

12.5.2 REQUEST BODY

Request body is identical with the request body of „Line address search“ (see Request body)

12.6 HTTP POST XML - RESPONSE

see HTTP GET - response

12.7 SOAP - PARAMETERS

SOAP interface Method: SearchStreet

Parameters are identical with the parameters of „Line address search“ (see SOAP - parameters)

12.8 SOAP - RESPONSE

Response is identical with the response of „Line address search“ (see SOAP - response)



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13 HINT FOR LINE ADDRESS SEARCH

13.1 HTTP GET - PARAMETERS

ver	mandatory, interface version Fixed value: 2						
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						
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</i> =js, name of callback function to be called						

13.2 HTTP GET - RESPONSE

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



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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: <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																								
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-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



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13.5 HTTP POST XML - PARAMETERS

13.5.1 URL PARAMETERS

ver	mandatory, interface version Fixed value: 2
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</i> =js, 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"><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						
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	



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{																									
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																								
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-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=2&text=pih&acountry=CZE>

Response:

```
<searchresults>
    <request>
        <version>2</version>
        <cmd>hint</cmd>
        <text>pih</text>
        <count>5</count>
    </request>
    <response>
        <error>0</error>
        <errormessage/>
```



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```
<count>2</count>
<results>
  <item>
    <id>city;550639098</id>
    <descr>Pihel (okres Česká Lípa)</descr>
    <searchtext>Pihel</searchtext>
  </item>
  <item>
    <id>city;550641373</id>
    <descr>Pihovice (okres Klatovy)</descr>
    <searchtext>Pihovice</searchtext>
  </item>
</results>
</response>
</searchresults>
```

13.9.2 HTTP POST XML

Request:

<http://services.position.cz/search/?cmd=hint&ver=2>

POST data:

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

Response:

```
<searchresults>
  <request>
    <version>2</version>
    <cmd>hint</cmd>
    <text>pih</text>
    <count>5</count>
  </request>
  <response>
    <error>0</error>
    <errormessage/>
    <count>2</count>
    <results>
      <item>
        <id>city;550639098</id>
        <descr>Pihel (okres Česká Lípa)</descr>
        <searchtext>Pihel</searchtext>
      </item>
      <item>
        <id>city;550641373</id>
        <descr>Pihovice (okres Klatovy)</descr>
        <searchtext>Pihovice</searchtext>
      </item>
    </results>
  </response>
</searchresults>
```

14 HINT FOR COMPONENT ADDRESS SEARCH

14.1 HTTP GET - PARAMETERS

ver	mandatory, interface version Fixed value: 2						
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" data-bbox="285 1190 476 1280"> <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" data-bbox="285 1504 476 1594"> <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" data-bbox="285 1796 476 1886"> <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</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																								
houseno	always given, <i>house_no</i> parameter value																								
count	always given, <i>count</i> parameter value																								
}																									
response																									
{																									
error	<p>always given, error code Possible values:</p> <table border="1"> <tbody> <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> </tbody> </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																								
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-201	No match for an item that is required																								
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-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: 2
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: <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 alphabet in input text is used</td></tr></table>	1	Allowed	2	Disabled	3	Allowed only if non-latin alphabet in input text is used
1	Allowed						
2	Disabled						
3	Allowed only if non-latin alphabet 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						



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	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						
<causer>	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</i> =js, 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: <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></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
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																		



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	-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)
}, ...]		
}		

14.9 EXAMPLES

14.9.1 HTTP GET

Request:

http://services.position.cz/search/?cmd=hint_comp&ver=2&country=CZE&city=pr

Response:

```
<searchresults>
    <request>
        <version>2</version>
        <cmd>hint_comp</cmd>
        <count>5</count>
        <country>CZE</country>
        <state/>
        <county/>
        <city>pr</city>
        <postcode/>
        <street/>
        <houseno/>
    </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;550642936</id>
                <descr>Prace (okres Brno-Venkov)</descr>
            </item>
        </results>
    </response>
</searchresults>
```



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```
<searchtext>Prace</searchtext>
</item>
<item>
  <id>city;557848064</id>
  <descr>Práče (okres Znojmo)</descr>
  <searchtext>Práče</searchtext>
</item>
<item>
  <id>city;550639209</id>
  <descr>Pracejovice (okres Strakonice)</descr>
  <searchtext>Pracejovice</searchtext>
</item>
<item>
  <id>city;550638876</id>
  <descr>Prachatice (okres Prachatice)</descr>
  <searchtext>Prachatice</searchtext>
</item>
</results>
</response>
</searchresults>
```

14.9.2 HTTP POST XML

Request:

http://services.position.cz/search/?cmd=hint_comp&ver=2

POST data:

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

Response:

```
<searchresults>
  <request>
    <version>2</version>
    <cmd>hint_comp</cmd>
    <count>5</count>
    <country>CZE</country>
    <state/>
    <county/>
    <city>pr</city>
    <postcode/>
    <street/>
    <houseno/>
  </request>
  <response>
    <error>0</error>
    <errormessage/>
    <count>5</count>
    <results>
      <item>
        <id>city;545981092</id>
```



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```
<descr>Praha (okres Hlavní Město Praha)</descr>
<searchtext>Praha</searchtext>
</item>
<item>
  <id>city;550642936</id>
  <descr>Prace (okres Brno-Venkov)</descr>
  <searchtext>Prace</searchtext>
</item>
<item>
  <id>city;557848064</id>
  <descr>Práče (okres Znojmo)</descr>
  <searchtext>Práče</searchtext>
</item>
<item>
  <id>city;550639209</id>
  <descr>Pracejovice (okres Strakonice)</descr>
  <searchtext>Pracejovice</searchtext>
</item>
<item>
  <id>city;550638876</id>
  <descr>Prachatice (okres Prachatice)</descr>
  <searchtext>Prachatice</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 with the parameters of "Hint for line address search" (see HTTP GET - parameters) with following exceptions:

- parameter *cmd* has fixed value "hint_country"

15.2 HTTP GET - RESPONSE

Response is identical with the 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: 2
cmd	mandatory, method name Fixed value: „hint_country“

15.5.2 REQUEST BODY

Request body is identical with the 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 with the parameters of "Hint for line address search" (see SOAP - parameters)

15.8 SOAP - RESPONSE

Response is identical with the response of "Hint for line address search" (see SOAP - response)



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

16.1 HTTP GET - PARAMETERS

Parameters are identical with the parameters of "Hint for line address search" (see HTTP GET - parameters) with following exceptions:

- parameter *cmd* has fixed value "hint_state"

16.2 HTTP GET - RESPONSE

Response is identical with the 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: 2
cmd	mandatory, method name Fixed value: „hint_state“

16.5.2 REQUEST BODY

Request body is identical with the request body of "Hint for line address search" (see Request body)

16.6 HTTP POST XML - RESPONSE

see HTTP GET - response

16.7 SOAP - PARAMETERS

SOAP interface Method: HintState

Parameters are identical with the parameters of "Hint for line address search" (see SOAP - parameters)

16.8 SOAP - RESPONSE

Response is identical with the response of "Hint for line address search" (see SOAP - response)



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

17.1 HTTP GET - PARAMETERS

Parameters are identical with the parameters of "Hint for line address search" (see HTTP GET - parameters) with following exceptions:

- parameter *cmd* has fixed value "hint_county"

17.2 HTTP GET - RESPONSE

Response is identical with the 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: 2
cmd	mandatory, method name Fixed value: „hint_county“

17.5.2 REQUEST BODY

Request body is identical with the request body of "Hint for line address search" (see Request body)

17.6 HTTP POST XML - RESPONSE

see HTTP GET - response

17.7 SOAP - PARAMETERS

SOAP interface Method: HintCounty

Parameters are identical with the parameters of "Hint for line address search" (see SOAP - parameters)

17.8 SOAP - RESPONSE

Response is identical with the response of "Hint for line address search" (see SOAP - response)



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18 HINT FOR CITY AND CITY PART SEARCH

18.1 HTTP GET - PARAMETERS

Parameters are identical with the parameters of "Hint for line address search" (see HTTP GET - parameters) with following exceptions:

- parameter *cmd* has fixed value "hint_city"

18.2 HTTP GET - RESPONSE

Response is identical with the 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: 2
cmd	mandatory, method name Fixed value: „hint_city“

18.5.2 REQUEST BODY

Request body is identical with the request body of "Hint for line address search" (see Request body)

18.6 HTTP POST XML - RESPONSE

see HTTP GET - response

18.7 SOAP - PARAMETERS

SOAP interface Method: HintCity

Parameters are identical with the parameters of "Hint for line address search" (see SOAP - parameters)

18.8 SOAP - RESPONSE

Response is identical with the response of "Hint for line address search" (see SOAP - response)



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19 HINT FOR STREET SEARCH

19.1 HTTP GET - PARAMETERS

Parameters are identical with the parameters of "Hint for line address search" (see HTTP GET - parameters) with following exceptions:

- parameter *cmd* has fixed value "hint_street"

19.2 HTTP GET - RESPONSE

Response is identical with the 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: 2
cmd	mandatory, method name Fixed value: „hint_street“

19.5.2 REQUEST BODY

Request body is identical with the request body of "Hint for line address search" (see Request body)

19.6 HTTP POST XML - RESPONSE

see HTTP GET - response

19.7 SOAP - PARAMETERS

SOAP interface Method: HintStreet

Parameters are identical with the parameters of "Hint for line address search" (see SOAP - parameters)

19.8 SOAP - RESPONSE

Response is identical with the 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: 2																										
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																										
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. 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.</td></tr> </table>	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.																				
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.																										
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>ctrysdescrcz</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>ctrysdescren</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> </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)	ctrysdescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrysdescren	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)
*	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)																										
ctrysdescrcz	Full country name in Czech language																										
ctrydescrcz	Abbreviated country name in Czech language																										
ctrysdescren	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
	pctyaln	Name of administrative level (parent city)
	strdescr	Street name
	hndescr	House number
	hnpot	Post code
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</i> =js, 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	<p>always given, error code Possible values:</p> <table> <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> <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> <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], text form coordinates												
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> <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>ctrysdescrcz</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>ctrysdescren</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, city part 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>pcyaln</i> and results are from level „city“ and lower, name of administrative level (city part) 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, parent city 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 (parent city) 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



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	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
}	
,	

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: 2
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>	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. Note: Depending on the contractual restrictions output of the line or polygon geometry</td></tr></table>	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		
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								



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		can be disabled. In case it's allowed, the geometry is provided as WKB encoded in base64.																																																
<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>ctrysdescrcz</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>ctrysdescren</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>pctydescr</td><td>Parent city name</td></tr><tr><td>pctyaln</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>hnpst</td><td>Post code</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)	ctrysdescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrysdescren	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)	pctydescr	Parent city name	pctyaln	Name of administrative level (parent city)	strdescr	Street name	hndescr	House number	hnpst	Post 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																																																	
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hndescr	House number																																																	
hnpst	Post code																																																	
<nonlatout>		optional, flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic, etc.) Default value: 2 Allowed values: <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>		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></table>	CZE	Czech																																														
CZE	Czech																																																	

	ENG	English
	DEF	Country's default language
<auuser>	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</i> =js, 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: 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)



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	<p>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>ctrysdescrcz</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>ctrysdescren</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>pctydescr</td><td>Parent city name</td></tr><tr><td>pctyaln</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></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)	ctrysdescrcz	Full country name in Czech language	ctrydescrcz	Abbreviated country name in Czech language	ctrysdescren	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)	pctydescr	Parent city name	pctyaln	Name of administrative level (parent city)	strdescr	Street name	hndescr	House number	hnpost	Post code
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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
-------	--

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	<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												
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 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 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 DT_SOAP_CAPABILITIES)												
Pos	given if parameter <i>OutputPosition</i> =[1, 3], coordinates (see structure DT_SOAP_POS)												
StrPos	given if parameter <i>OutputPosition</i> =[2, 3], text form coordinates												
BoundingBox	given if <i>Capabilities</i> contains item <i>BoundingBox</i> and parameter <i>OutputPosition</i> =[1, 3], coordinates of bounding box (see structure DT_SOAP_BOUNDINGBOX)												
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 DT_SOAP_STRBOUNDINGBOX)												
Level	given if parameter <i>ResultFields</i> contains value <i>lvl</i> , result level Possible values:												



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	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>ctrysdescrcz</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>ctrysdescren</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>pctydescr</i> and results are from level „city“ and lower, city part 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>pctyaln</i> and results are from level „city“ and lower, name of administrative level (city part)



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	<p>Note: If the field <i>CityIsPart</i>=0 or parameter <i>CityNormalization</i>=1 content of this field is always empty</p>
CityPartDescr	<p>given if parameter <i>ResultFields</i> contains value <i>cityptdescr</i> and results are from level „city“ and lower, parent city name Note: If parameter <i>CityNormalization</i>=0 content of this field is always empty</p>
CityPartAdminLevelName	<p>given if parameter <i>ResultFields</i> contains value <i>cityptaln</i> and results are from level „city“ and lower, name of administrative level (parent city) Note: If parameter <i>CityNormalization</i>=0 content of this field is always empty</p>
StreetDescr	<p>given if parameter <i>ResultFields</i> contains value <i>strdescr</i> and results are from level „street“ and lower, street name</p>
HouseNoDescr	<p>given if parameter <i>ResultFields</i> contains value <i>hndescr</i> and results are from level „house_no“ and lower, house number</p>
HouseNoPostCode	<p>given if parameter <i>ResultFields</i> contains value <i>hnpst</i> and results are from level „house_no“ and lower, post code</p>
{, ...]	
}	

20.9 EXAMPLES

20.9.1 HTTP GET

Request:

http://services.position.cz/search/?cmd=search_id&ver=2&id=city;545981092&resfields=*

Response:

```
<searchresults>
  <request>
    <version>2</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>
          <geometripolygon>1</geometripolygon>
        </capabilities>
        <pos>
          <proj>WGS-84</proj>
```



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```
<lat>50.07908</lat>
<lon>14.43322</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>
```

20.9.2 HTTP POST XML

Request:

http://services.position.cz/search/?cmd=search_id&ver=2

POST data:

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

Response:

```
<searchresults>
  <request>
    <version>2</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>
```



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```
<item>
    <id>city;545981092</id>
    <descr>Praha</descr>
    <descrex>okres Hlavní Město Praha</descrex>
    <capabilities>
        <detail>1</detail>
        <boundingbox>1</boundingbox>
        <geometripolygon>1</geometripolygon>
    </capabilities>
    <pos>
        <proj>WGS-84</proj>
        <lat>50.07908</lat>
        <lon>14.43322</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>
```



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21 ADDRESS DETAIL BY INTERNAL ID

21.1 HTTP GET - PARAMETERS

ver	mandatory, interface version Fixed value: 2																				
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> 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.	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																				
outlvl	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:						
	<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	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</i> =js, 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: <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, výsledek												
{													



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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: <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 <i>outlvl</i> s contains value <i>country</i> or parameter <i>outlvl</i> s 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], text form coordinates												
geometripolygon	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 (see structure DT_STRBOUNDINGBOX)												
}													
state	given if field <i>level</i> =[state, county, city, street, house_no] and parameter <i>outlvl</i> s contains value <i>state</i> or parameter <i>outlvl</i> s contains value <i>self</i> and field <i>level</i> =state, detailed information on administrative level 2 (region, areas 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 DT_POS)
strpos	given if field <i>level</i> =state, parameter <i>geometry</i> =[1, 2] and parameter <i>outpos</i> =[2, 3], text form coordinates
geometripolygon	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 DT_BOUNDINGBOX)
strboundingbox	given if parameter <i>outpos</i> =[2, 3], coordinates of bounding box in text form (see structure DT_STRBOUNDINGBOX)
}	
county	given if field <i>level</i> =[county, city, street, house_no] and parameter <i>outlvs</i> contains value <i>county</i> or parameter <i>outlvs</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>geometry</i> =[1, 2] and parameter <i>outpos</i> =[1, 3], coordinates (see structure DT_POS)
strpos	given if field <i>level</i> =county, parameter <i>geometry</i> =[1, 2] and parameter <i>outpos</i> =[2, 3], text form coordinates
geometripolygon	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 DT_BOUNDINGBOX)
strboundingbox	given if parameter <i>outpos</i> =[2, 3], coordinates of bounding box in text form (see structure DT_STRBOUNDINGBOX)
}	
parentcity	given if field <i>level</i> =[city, street, house_no], parameter <i>outlvs</i> contains value <i>parent_city</i> , parameter <i>citynom</i> =0 and field <i>ispart</i> in section <i>city</i>



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	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>outlvs</i> contains value <i>city</i> or parameter <i>outlvs</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>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], text form coordinates
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>outlvs</i> 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
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], text form coordinates
geometripolygon	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
geometripolygonbua	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 DT_BOUNDINGBOX)
strboundingbox	given if parameter <i>outpos</i> =[2, 3], coordinates of city part bounding box in text form (see structure DT_STRBOUNDINGBOX)
boundingboxbua	given if parameter <i>outpos</i> =[1, 3], coordinates of city part built-up area bounding box (see structure DT_BOUNDINGBOX)
strboundingboxbua	given if parameter <i>outpos</i> =[2, 3], coordinates of city part built-up area bounding box in text form (see structure DT_STRBOUNDINGBOX)
}	
street	given if field <i>level</i> =[street, house_no] and parameter <i>outlvs</i> contains value <i>street</i> or parameter <i>outlvs</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 DT_POS)
strpos	given if field <i>level</i> =street, parameter <i>geometry</i> =[1, 2] and parameter <i>outpos</i> =[2, 3], text form coordinates
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 DT_BOUNDINGBOX)
strboundingbox	given if parameter <i>outpos</i> =[2, 3], coordinates of bounding box of street in text form (see structure DT_STRBOUNDINGBOX)
}	
houseno	given if field <i>level</i> =house_no and parameter <i>outlvs</i> contains value <i>house_no</i> or parameter <i>outlvs</i> contains value <i>self</i> and field <i>level</i> =house_no, detailed information on house number
{	



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id	always given, record ID
descr	always given, house number
postcode	always given, post code
pos	given if field <i>level</i> =house_no, 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> =house_no, parameter <i>geometry</i> =[1, 2] and parameter <i>outpos</i> =[2, 3], text form coordinates
}	
{, ...]	
}	

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: 2
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: <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:								

	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.		
<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
<outlvl>	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
	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	
<alnlang>	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)	
<pass>	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.



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

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: <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								
GeometryType	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> 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.	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.								
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								
OutputLevels	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></table>	*	All of the following values	self	ID self level (varies depending on ID)	house_no	House number	street	Street
*	All of the following values								
self	ID self level (varies depending on ID)								
house_no	House number								
street	Street								

	<table border="1"> <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>	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)
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)												
AllowNonLatinOutput	optional, flag whether output in non-latin alphabets is allowed (alphabet, Cyrillic, etc.) Default value: 2 Allowed values: <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	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												
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	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												
Detail	given if <i>Error</i> =0, result												
{													
ID	always given, record ID												



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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 <i>OutputLevels</i> contains value <i>country</i> or parameter <i>OutputLevels</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>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[1, 3], coordinates (see structure DT_SOAP_POS)												
StrPos	given if field <i>Level</i> =country, parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[2, 3], text form coordinates												
GeometryPolygon	given if field <i>Level</i> =country and parameter <i>GeometryType</i> =2, detailed country polygon in WKB format (Well known binary) encoded in base64												
BoundingBox	given if parameter <i>OutputPosition</i> =[1, 3], coordinates of country bounding box (see structure DT_SOAP_BOUNDINGBOX)												
StrBoundingBox	given if parameter <i>OutputPosition</i> =[2, 3], coordinates of country bounding box in text form (see structure DT_SOAP_STRBOUNDINGBOX)												
}													
State	given if field <i>Level</i> =[state, county, city, street, house_no] and parameter <i>OutputLevels</i> contains value <i>state</i> or parameter <i>OutputLevels</i> contains value <i>self</i> and field <i>Level</i> =state, detailed information on administrative level 2 (region, areas etc.) Note: In case of fulfilled conditions mentioned above, output is conditioned by existence of administrative level in country												
{													
ID	always given, record ID												



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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>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[1, 3], coordinates (see structure DT_SOAP_POS)
StrPos	given if field <i>Level</i> =state, parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[2, 3], text form coordinates
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 DT_SOAP_BOUNDINGBOX)
StrBoundingBox	given if parameter <i>OutputPosition</i> =[2, 3], coordinates of bounding box in text form (see structure DT_SOAP_STRBOUNDINGBOX)
}	
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 DT_SOAP_POS)
StrPos	given if field <i>Level</i> =county, parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[2, 3], text form coordinates
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 DT_SOAP_BOUNDINGBOX)
StrBoundingBox	given if parameter <i>OutputPosition</i> =[2, 3], coordinates of bounding box in text form (see structure DT_SOAP_STRBOUNDINGBOX)
}	
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



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	<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>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 DT_SOAP_POS)
StrPos	given if field <i>Level</i> =city, parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[2, 3], text form coordinates
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 DT_SOAP_BOUNDINGBOX)
StrBoundingBox	given if parameter <i>OutputPosition</i> =[2, 3], coordinates of city or city part bounding box in text form (see structure DT_SOAP_STRBOUNDINGBOX)
BoundingBoxBUA	given if parameter <i>OutputPosition</i> =[1, 3], coordinates of bounding box of city built-up area (see structure DT_SOAP_BOUNDINGBOX)
StrBoundingBoxBUA	given if parameter <i>OutputPosition</i> =[2, 3], coordinates of bounding box of city built-up area in text form (see structure DT_SOAP_STRBOUNDINGBOX)
}	
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
{	



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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
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 DT_SOAP_POS)
StrPos	given if field <i>Level</i> =city, parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[2, 3], text form coordinates
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 DT_SOAP_BOUNDINGBOX)
StrBoundingBox	given if parameter <i>OutputPosition</i> =[2, 3], coordinates of city part bounding box in text form (see structure DT_SOAP_STRBOUNDINGBOX)
BoundingBoxBUA	given if parameter <i>OutputPosition</i> =[1, 3], coordinates of city part built-up area bounding box (see structure DT_SOAP_BOUNDINGBOX)
StrBoundingBoxBUA	given if parameter <i>OutputPosition</i> =[2, 3], coordinates of city part built-up area bounding box in text form (see structure DT_SOAP_STRBOUNDINGBOX)
}	
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 DT_SOAP_POS)
StrPos	given if field <i>Level</i> =street, parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[2, 3], text form coordinates
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 DT_SOAP_BOUNDINGBOX)
StrBoundingBox	given if parameter <i>OutputPosition</i> =[2, 3], coordinates of bounding box of street in text form (see structure DT_SOAP_STRBOUNDINGBOX)
}	
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



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{	
ID	always given, record ID
Descr	always given, house number
PostCode	always given, post code
Pos	given if field <i>Level</i> =house_no, parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[1, 3], coordinates (see structure DT_SOAP_POS)
StrPos	given if field <i>Level</i> =house_no, parameter <i>GeometryType</i> =[1, 2] and parameter <i>OutputPosition</i> =[2, 3], text form coordinates
}	
, ...]	
}	

21.9 EXAMPLES

21.9.1 HTTP GET

Request:

<http://services.position.cz/search/?cmd=detail&ver=2&id=city;545981092>

Response:

```
<searchresults>
  <request>
    <version>2</version>
    <cmd>detail</cmd>
    <id>city;545981092</id>
  </request>
  <response>
    <error>0</error>
    <errormessage/>
    <detail>
      <id>city;545981092</id>
      <descr>Praha</descr>
      <descrex>okres Hlavní Město Praha</descrex>
      <capabilities>
        <detail>1</detail>
        <boundingbox>1</boundingbox>
        <geometripolygon>1</geometripolygon>
      </capabilities>
      <level>city</level>
      <country>
        <id>country;20427915</id>
        <descr>Česká Republika</descr>
        <descrtr>Ceska Republika</descrtr>
        <isocodea3>CZE</isocodea3>
        <isocodea2>CZ</isocodea2>
        <isocoden>203</isocoden>
        <ivrc>CZ</ivrc>
        <isodescrcze>Česká republika</isodescrcze>
        <isoshortdescrcze>Česko</isoshortdescrcze>
        <isodescreng>Czech Republic</isodescreng>
        <isoshortdescreng>Czech Republic</isoshortdescreng>
```



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```
</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>50.07908</lat>
    <lon>14.43322</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=2&id=city;545981092>

POST data:

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



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```
</options>
Response:
<searchresults>
  <request>
    <version>2</version>
    <cmd>detail</cmd>
    <id>city;545981092</id>
  </request>
  <response>
    <error>0</error>
    <errormessage/>
    <detail>
      <id>city;545981092</id>
      <descr>Praha</descr>
      <descrex>okres Hlavní Město Praha</descrex>
      <capabilities>
        <detail>1</detail>
        <boundingbox>1</boundingbox>
        <geometripolygon>1</geometripolygon>
      </capabilities>
      <level>city</level>
      <country>
        <id>country;20427915</id>
        <descr>Česká Republika</descr>
        <descrtr>Ceska Republika</descrtr>
        <isocodea3>CZE</isocodea3>
        <isocodea2>CZ</isocodea2>
        <isocoden>203</isocoden>
        <ivrc>CZ</ivrc>
        <isodescrcze>Česká republika</isodescrcze>
        <isoshortdescrcze>Česko</isoshortdescrcze>
        <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>
      </city>
    </detail>
  </response>
</searchresults>
```



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```
<ispart>0</ispart>
<pos>
    <proj>WGS-84</proj>
    <lat>50.07908</lat>
    <lon>14.43322</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>
```