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What is *Integrated411*?

Integrated411 is a platform-independent SOAP (Simple ObjectAccess Protocol) web service that can be integrated into your existing business process to allow users to query PacificEast's data sources.

Data Sources

Directory Assistance

PacificEast is connected to the most up-to-date data available today. With access to the databases of over 700 telephone companies in the USA and Canada, our system covers over 99% of all published phone numbers. Queries can be performed on fields such as first name, last name, address and telephone numbers.

Address Standardization

Clean and standardize US mailing addresses according to US Postal Service standards.

Proprietary Data

PacificEast's proprietary data is compiled from various independent sources to provide such information as phone line status, carrier group, phone number porting and other data.

Getting Started

Setting up an Account

Before the *Integrated411* service can be used, a PacificEast Business Account must be created. PacificEast will then provide you with a user name(s) and password(s) which need to be included with each query to the *Integrated411* service.

To get started setting up an *Integrated411* account, contact a National Account Manager by calling 800-665-8400 or e-mailing us at sales@pacificeast.com.

By using the *Integrated411* service, you agree to the terms of PacificEast's RealTime services. Contact your National Account Manager or email data@pacificeast.com if you did not receive a copy of this agreement when your account was setup.

Requirements

The *Integrated411* web service is a SOAP compliant service and can be accessed by any TCP/IP-enabled computer with access to the Internet.

Any programming language that can access SOAP services can be used to integrate this service into your existing business process.

Support

Development support for *Integrated411* is available by e-mailing our support team at support@pacificeast.com.

The rest of this document provides the technical information required for accessing this service including the input and output parameters of *Integrated411*'s various functions as well as some pointers on how to use the web service.

Function Reference

CleanAddress

The *CleanAddress* function will return a USPS (US Postal Service) standardized version of the input address. Additional information about the address, including DPV (Delivery Point Validation) codes and CASS (Coding Accuracy Support System) information, is also returned.

Input Parameters

Table 1 - CleanAddress Parameters

Parameter	Description	Default Value
username	The user name assigned by PacificEast.	
password	The password assigned by PacificEast.	
referenceId	An identifier that can be used by the client application to uniquely identify the transaction. This text will be returned in the response.	
address	Single line address. If secondary address information such as an apartment number is available it should be appended to the end of the street address. For example, <i>100 Main St Apt 10</i> .	
city	The name of the city.	
state	The two character state abbreviation.	
zip	The five or nine digit ZIP code. If the ZIP+4 is included, include only the digits. Do not include the hyphen.	
jobCode	An identifier that can be included for reporting purposes. Queries with the same job code will be grouped together on the invoice from PacificEast.	

All address elements (address, city, state and ZIP) are required.

Output Parameters

The results of a *CleanAddress* query are returned in a *DataMaxResponse* object.

Table 2 - DataMaxResponse Fields

Field	Description	Data Type
ReferenceId	User reference ID if supplied in the query.	Text
ResultCode	The result of the CleanAddress transaction: <ul style="list-style-type: none"> 0 – the address could not be standardized. 1 – the address was standardized. 	Integer
Address	The standardized street address.	Text
City	The name of the city.	Text
State	The two character state abbreviation.	Text
Zip	ZIP code. If the ZIP+4 information is available the ZIP code will have a '-' (hyphen) between the first five digits and the last four.	Text
DPVConfirmed	True if the address if the address is confirmed as a deliverable address, otherwise false.	Boolean
DPVCodes	A list of one or more DPV codes. The list of possible DPV codes is as follows: <ul style="list-style-type: none"> AA - Input matched ZIP+4 file A1 - Input did not match ZIP+4 file BB - Input matched to DPV CC - Input primary # matched, secondary # invalid F1 - Input matched ZIP+4 file, military G1 - Input matched ZIP+4 file, general delivery N1 - Input primary # matched, unit # missing M1 - Input primary # missing M3 - Input primary # invalid P1 - Input PO/RR/HC box # missing P3 - Input PO/RR/HC box # invalid 	Text

	<ul style="list-style-type: none"> • RR - Input matched to CMRA • R1 - Input matched to CMRA, secondary # missing • U1 - Input matched ZIP+4 file, unique ZIP 	
USPSCodes	<p>Additional information about the input address. The list of possible values is as follows :</p> <ul style="list-style-type: none"> • 5-digit ZIP code has been corrected • City/state spelling has been corrected • City/state/ZIP are invalid • No ZIP+4 has been assigned • ZIP code has been assigned for multiple response • Address not found with the city/state/zip provided • Part of the firm was moved to address • Secondary number was missing for this address • Insufficient/incorrect address data was supplied • PO box address used for dual address • Non-PO box address used for dual address • Delivery address component has been changed • Street name has been changed • Delivery address has been standardized • Delivery address is known by a preferred name • Address is not in current data but will be added in the future • Secondary number does not match • Address has magnet street syndrome (multiple) • City or PO name supplied was not an official last line name • City or state could not be verified as corresponding to the ZIP code • Address was identified as a small town default • Address has a unique ZIP code default • Match made using ZIPMOVE data • Match has been made to a unique ZIP 	Text
CASSCodes	<p>One or more CASS notes providing additional information about the input address. The list of possible values is as follows:</p> <ul style="list-style-type: none"> • ZIP+4 has been assigned • DPBC has been assigned • 5 digit ZIP has been assigned • Address is a High Rise Default • Address is a High Rise Exact • Address is a Rural Route Default • Address is a Rural Route Exact • Address converted using LACS 	Text

GetLineIdentification_Premium

The *GetLineIdentification_Premium* method returns the phone service type for a phone number like the *GetLineIdentification_Standard* method (described below) but also includes the carrier group, home location (city/state) and whether the phone number has been ported to a different location.

Input Parameters

Table 3 – GetLineIdentification_Premium Parameters

Parameter	Description	Default Value
username	The user name assigned by PacificEast.	
password	The password assigned by PacificEast.	
referenceId	An identifier that can be used by the client application to uniquely identify the transaction. This text will be returned in the response.	
phoneNumber	The ten digit phone number (area code, exchange and line) without any formatting.	
jobCode	An identifier that can be included for reporting purposes. Queries with the same job code will be grouped together on the invoice from PacificEast.	

Output Parameters

The results of a *GetLineIdentification_Premium* query are returned in a *LineIdentificationResponse* object.

Table 4 - LineIdentificationResponse Fields

Field	Description	Data Type
ReferenceId	User reference ID if supplied in the query.	Text
ErrorCode	If the query executes successfully this field will be empty. A value indicates an error occurred.	Text
ErrorDescription	If the query executes successfully this field will be empty. Otherwise, the field will contain a description of the error that occurred.	Text
PhoneServiceType	Phone service type possible values: <ul style="list-style-type: none">• Landline• Wireless / Cellular Phone• Beeper or Pager• Voice-Over-IP• Special service• Unknown or Multiples	Text
CarrierGroup	The name of the telephone company that services the phone number.	Text
City	City associated with the phone number.	Text
State	State associated with the phone number.	Text
PostalCode	ZIP/postal code associated with the phone number.	Text
Country	Country associated with the phone number.	Text

GetLineIdentification_Standard

The *GetLineIdentification_Standard* method returns the phone service type for a phone number.

Input Parameters

Table 5 – *GetLineIdentification_Standard* Parameters

Parameter	Description	Default Value
username	The user name assigned by PacificEast.	
password	The password assigned by PacificEast.	
referenceId	An identifier that can be used by the client application to uniquely identify the transaction. This text will be returned in the response.	
phoneNumber	The ten digit phone number (area code, exchange and line) without any formatting.	
jobCode	An identifier that can be included for reporting purposes. Queries with the same job code will be grouped together on the invoice from PacificEast.	

Output Parameters

The results of a *GetLineIdentification_Standard* query are returned in a *LineIdentificationResponse* object.

Table 6 - *LineIdentificationResponse* Fields

Field	Description	Data Type
ReferenceId	User reference ID if supplied in the query.	Text
ErrorCode	If the query executes successfully, this field will be empty. A value indicates an error occurred.	Text
ErrorDescription	If the query executes successfully, this field will be empty. Otherwise, the field will contain a description of the error that occurred.	Text
PhoneServiceType	Phone service type possible values: <ul style="list-style-type: none">• Landline• Wireless / Cellular Phone• Beeper or Pager• Voice-Over-IP• Special service• Unknown or Multiples	Text
CarrierGroup	Data not returned with <i>GetLineIdentification_Standard</i> .	Text
City	Data not returned with <i>GetLineIdentification_Standard</i> .	Text
State	Data not returned with <i>GetLineIdentification_Standard</i> .	Text
PostalCode	Data not returned with <i>GetLineIdentification_Standard</i> .	Text
Country	Data not returned with <i>GetLineIdentification_Standard</i> .	Text

GetListings

The *GetListings* function is used to query PacificEast's database to retrieve directory assistance listings. The *GetListings* function is designed to replace the three search functions (*Lookup*, *Search* and *CentricSearch*) from earlier versions of *Integrated411*.

Input Parameters

Table 7 - GetListings Parameters

Parameter	Description	Default Value
username	The user name assigned by PacificEast.	
password	The password assigned by PacificEast.	
firstName	First name of the contact.	
lastName	Last name of contact.	
bizGovName	Full name of business or government entity.	
address	One line address (For example, <i>100 Main St Apt 10</i>). Address range search is also supported (For example, <i>100-150 Main St</i>).	
city	City to search on.	
state	State to search on. Specify a two character state or province abbreviation or leave blank to search all states or 'APT' to search all Canadian provinces and territories.	
Zip	The five digit ZIP code (either with or without ZIP+4) for US queries or the six character postal code for Canadian queries. Do not include the '-' for nine digit ZIP codes or the space for postal codes.	
phoneNumber	The ten digit phone number (area code, exchange and line) without any formatting.	
referenceId	An identifier that can be used by the client application to uniquely identify the transaction. This text will be returned in the response.	
showNonPublished	Specify whether to retrieve non-published records (Values 'Y' or 'N')	'N'
surroundMiles	Specify the radius (in miles) from a city center to search from. If <i>surroundMiles</i> is specified, the <i>city</i> and <i>state</i> parameters must also be supplied. The maximum value is 100.	0
queryType	One of the following values: <ul style="list-style-type: none"> Residential – searches for a residential listing. No business / government listings will be returned. The <i>lastName</i> parameter is required. BusinessGovernment – searches for business or government listings. No residential listings will be returned. The <i>bizGovName</i> parameter is required. BusinessResidential – searches for business /government and residential listings. Either the <i>lastName</i> or the <i>bizGovName</i> parameter (or both) is required. Telephone – searches for listings that match the input phone number (reverse on phone). The <i>phoneNumber</i> parameter is required. All name and address parameters are ignored. Address – searches for listings based on the address. No last name or business name needs to be specified. The <i>address</i> parameter is required. The <i>firstName</i> and <i>lastName</i> parameters are ignored. 	
page	Specify the page to retrieve when multiple pages of results are available. The <i>requestKey</i> parameter must be included when requesting any page other than 1.	1
requestKey	Used when requesting result pages after the first page. The <i>requestKey</i> is returned with each multi-page response and must be included with the request for any subsequent pages.	

Output Parameters

The results of a *GetListings* query are returned in a *Response2* object.

Table 8 - Response2 Fields

Field	Description	Data Type
ReferenceId	User reference ID if supplied in query.	Text
TotalFound	Total number of listings matching given criteria.	Integer
TotalReturned	Total number of listings returned to user.	Integer
ErrorCode	If the query executes successfully, the error code will be '0000'. Any other value indicates an error occurred.	Text
ErrorDescription	If the query executes successfully, the error description will be 'Successful'. Otherwise, the field will contain a description of the error that occurred.	Text
Listings	Array of Listing objects with the listings that match the query criteria. If no listings matched the query the array will be empty.	Array
RequestKey	A text identifier that must be included as the <i>requestKey</i> parameter of any queries for any subsequent result pages.	Text

The *Listings* array contains a set of *Listing* items that contain data on each listing that matched the query.

Table 9 - Listing Fields

Field	Description	Data Type
FirstName	First name / initial.	Text
LastName	Last name.	Text
BizGovName	Business or government name.	Text
Address	Street address.	Text
City	City.	Text
State	Two character state abbreviation.	Text
Zip	ZIP/postal code. If the ZIP+4 info is available the ZIP code will have a '-' (hyphen) between the first five digits and the last four.	Text
Phone	Ten digit phone number.	Text
Latitude	Latitude with a maximum of six decimal digits accuracy.	Text
Longitude	Longitude with a maximum of six decimal digits accuracy.	Text
NonPublished	Indicates whether the record is non-published ('Y' or 'N').	Text
TransactionDate	The last date a change was made to the listing (YYYYMMDD).	Text
ListingType	Type of listing: <ul style="list-style-type: none"> • RS - residential RS • BG - business/government • BR – business and residential (e.g. home office) 	Text

Note that not all the fields may be populated on every listing.

Notes on using *GetListings*

- The username and password are used to authenticate your request to the *Integrated411* service. These fields must be submitted with each request. Usernames are assigned by PacificEast and are NOT case-sensitive. Passwords are also assigned by PacificEast and are case-sensitive.
- All addresses returned in the listings are formatted according to US Postal Service standards.
- Listings are returned in sets of thirty records. Use the *page* and *requestKey* parameters to retrieve subsequent pages of listings. The total number of pages of results that are available can be calculated by dividing the total number of listings found (*TotalFound*) by thirty and rounding up.
 - For example, if a query response indicated that there were sixty-six total listings found, the *Listings* array would contain the first thirty. There would be a total of three pages of results (including the first) available as $66 / 30 = 2.2$ which, when rounded up, is 3. The second page would contain thirty listings (listings 31 to 60 of the entire set) and the third page would contain six listings (listings 61 – 66).

- Requesting a page greater than the number of pages available will result in a successful query (the *ErrorCode* would be '0000') however no listings would be returned (*TotalReturned* = 0).
- The *Integrated411* data is compiled from the various phone companies from across the nation. Some of the fields for a listing may not contain data for various reasons (non-listed or non-published address, etc.). For example, some listings may not have an address. It is important that client applications using the PacificEast *Integrated411* Web Service properly handle blank fields.
- If a field is blank, it may be because the record is a non-published one. Examine the *NonPublished* field of the listing to determine if this is the case.
- Wild card searches
 - Wild card searches are supported on the following input fields: *firstName*, *lastName*, *bizGovName*, *address*, *city*, *ZIP* and *phoneNumber*.
 - Both the '*' (asterisk) and '.' (period) characters can be used as wild cards. Do not include a '.' (period) in the search criteria unless it is intended to be a wild card.
 - At least three characters of the field must be specified before the wild card. Specifying less than three characters will result in an error response. The only exception is the *firstName* parameter which will allow a single character before the wildcard.
 - Any characters in the field after the wild card are ignored and will not be used to evaluate matches.
- Error Codes and Error Descriptions
 - A query that produces no matching results is still considered a successful match. Instead, use the *TotalReturned* field to determine if there are any matches.
 - If an error code is returned, examine the *ErrorDescription* field to see if additional information is available about why the query failed.
- If a first name is submitted using the *firstName* parameter, the entire first name is used when attempting to find matching listings. Because many listings only have the first initial or may have a different first name (e.g. Robert instead of Bob), better results might be obtained if only the first initial with a wild card or no first name at all is submitted.

GetPhoneStatus_Full

The *GetPhoneStatus_Full* function returns status and listing information about a phone number.

Input Parameters

Table 10 – GetPhoneStatus_Full Parameters

Parameter	Description	Default Value
username	The user name assigned by PacificEast.	
password	The password assigned by PacificEast.	
referenceId	An identifier that can be used by the client application to uniquely identify the transaction. This text will be returned in the response.	
phoneNumber	The ten digit phone number (area code, exchange and line) without any formatting.	
jobCode	An identifier that can be included for reporting purposes. Queries with the same job code will be grouped together on the invoice from PacificEast.	

Output Parameters

The results of a *GetPhoneStatus_Full* query are returned in a *StatusResponse* object.

Table 11 - StatusResponse Fields

Field	Description	Data Type
ReferenceId	User reference ID if supplied in query.	Text
TotalFound	Total number of listings matching given criteria.	Integer
TotalReturned	Total number of listings returned to user.	Integer
ErrorCode	If the query executes successfully this field will be empty. A value indicates an error occurred.	Text
ErrorDescription	If the query executes successfully this field will be empty. Otherwise, the field will contain a description of the error that occurred.	Text
LineStatus	LineStatus items.	Object
Listings	An array of Listing objects with the listings that match the query criteria. If no listings matched the query the array will be empty.	Array

The *LineStatus* item contains data on the listing(s) that matched the query.

Table 12 - LineStatus Fields

Field	Description	Data Type
Status	The line status of the phone number. Possible values are: <ul style="list-style-type: none">• Unknown• Active• Inactive• Can't confirm	Text
PhoneServiceType	The type of phone service. Possible values are: <ul style="list-style-type: none">• Landline• Wireless / Cellular Phone• Beeper or Pager• Voice-Over-IP• Special service• Unknown or Multiples	Text
PortingStatus	Whether the phone number has been ported. Possible values are: <ul style="list-style-type: none">• Unknown• Ported• NotPorted	Text
CarrierGroup	Name of the telephone company.	Text

The *Listings* array contains a set of *StatusListing* items that contain data on each listing that matched the query.

Table 13 - StatusListing Fields

Field	Description	Data Type
ListingName	Listing name.	Text
FirstName	First name / initial.	Text
LastName	Last name.	Text
Address	Street address.	Text
City	City.	Text
State	Two character state abbreviation.	Text
PostalCode	ZIP/postal code. If the ZIP+4 info is available the ZIP code will have a '-' (hyphen) between the first five digits and the last four.	Text
Phone	The ten digit phone number.	Text
Latitude	Latitude with a maximum of six decimal digits accuracy.	Text
Longitude	Longitude with a maximum of six decimal digits accuracy.	Text
NonPublished	Indicates whether the record is non-published ('Y' or 'N').	Text
TransactionDate	The last date a change was made to the listing (YYYYMMDD) if available.	Text
ListingType	Listing type possible values: <ul style="list-style-type: none"> • Unknown • Business • BizRez • Residential 	Text

GetPhoneStatus_Quick

The *GetPhoneStatus_Quick* function returns status and listing information about a phone number.

Input Parameters

Table 14 – GetPhoneStatus_Full Parameters

Parameter	Description	Default Value
username	The user name assigned by PacificEast.	
password	The password assigned by PacificEast.	
referenceId	An identifier that can be used by the client application to uniquely identify the transaction. This text will be returned in the response.	
phoneNumber	The ten digit phone number (area code, exchange and line) without any formatting.	
jobCode	An identifier that can be included for reporting purposes. Queries with the same job code will be grouped together on the invoice from PacificEast.	

Output Parameters

The results of a *GetPhoneStatus_Quick* query are returned in a *StatusResponse* object.

Table 15 - StatusResponse Fields

Field	Description	Data Type
ReferenceId	User reference ID if supplied in query.	Text
TotalFound	Total number of listings matching given criteria.	Integer
TotalReturned	Total number of listings returned to user.	Integer
ErrorCode	If the query executes successfully this field will be empty. A value indicates an error occurred.	Text
ErrorDescription	If the query executes successfully this field will be empty. Otherwise, the field will contain a description of the error that occurred.	Text
LineStatus	LineStatus items.	Object
Listings	An array of Listing objects with the listings that match the query criteria. If no listings matched the query the array will be empty.	Array

The *LineStatus* item contains data on the listing(s) that matched the query.

Table 16 - LineStatus Fields

Field	Description	Data Type
Status	The line status of the phone number. Possible values are: <ul style="list-style-type: none">• Unknown• Active• Inactive• Can't confirm	Text
PhoneServiceType	The type of phone service. Possible values are: <ul style="list-style-type: none">• Landline• Wireless / Cellular Phone• Beeper or Pager• Voice-Over-IP• Special service• Unknown or Multiples	Text
PortingStatus	Only available with <i>GetPhoneStatus_Full</i> . This will always be <i>Unknown</i> .	Text
CarrierGroup	Only available with <i>GetPhoneStatus_Full</i> .	Text

The *Listings* array contains a set of *StatusListing* items that contain data on each listing that matched the query.

Table 17 - StatusListing Fields

Field	Description	Data Type
ListingName	Listing name.	Text
FirstName	First name / initial.	Text
LastName	Last name.	Text
Address	Only available with <i>GetPhoneStatus_Full</i> .	Text
City	Only available with <i>GetPhoneStatus_Full</i> .	Text
State	Only available with <i>GetPhoneStatus_Full</i> .	Text
PostalCode	Only available with <i>GetPhoneStatus_Full</i> .	Text
Phone	The ten digit phone number.	Text
Latitude	Only available with <i>GetPhoneStatus_Full</i> .	Text
Longitude	Only available with <i>GetPhoneStatus_Full</i> .	Text
NonPublished	Only available with <i>GetPhoneStatus_Full</i> . This will always be <i>N</i> .	Text
TransactionDate	Only available with <i>GetPhoneStatus_Full</i> .	Text
ListingType	Only available with <i>GetPhoneStatus_Full</i> . This will always be <i>Unknown</i> .	Text

GetScreenPop_Basic

The GetScreenPop_Basic function returns contact data for the input phone number by searching publicly available data.

Input Parameters

Table 18 – GetScreenPop_Basic Parameters

Parameter	Description	Default Value
username	The user name assigned by PacificEast.	
password	The password assigned by PacificEast.	
referenceId	An identifier that can be used by the client application to uniquely identify the transaction. This text will be returned in the response.	
phoneNumber	The ten digit phone number (area code, exchange and line) without any formatting.	
jobCode	An identifier that can be included for reporting purposes. Queries with the same job code will be grouped together on the invoice from PacificEast.	

Output Parameters

The results of a *GetScreenPop_Basic* query are returned in a *ScreenPopResponse* object.

Table 19 - ScreenPopResponse Fields

Field	Description	Data Type
ReferenceId	User reference ID if supplied in query.	Text
ListingsFound	Total number of listings matching given criteria.	Integer
ListingsReturned	Total number of listings returned to user.	Integer
ErrorCode	If the query executes successfully, this field will be empty. A value indicates an error occurred.	Text
ErrorDescription	If the query executes successfully, this field will be empty. Otherwise, the field will contain a description of the error that occurred.	Text
PhoneServiceType	Phone service type possible values: <ul style="list-style-type: none"> • Landline • Wireless / Cellular Phone • Beeper or Pager • Voice-Over-IP • Special service • Unknown or Multiples 	Text
CarrierGroup	Name of the telephone company.	Text
RestrictedData	Indicates if the data is from a data source that has use restrictions. This will always be 'N' (not restricted) for GetScreenPop_Basic queries.	Text (Y/N)
FirstName	First name / initial.	Text
LastName	Last name.	Text
BizGovName	Business or government name.	Text
Address1	Street address.	Text
Address2	Secondary street address.	Text
City	City.	Text
State	Two character state abbreviation	Text
PostalCode	ZIP/postal code. If the ZIP+4 info is available the ZIP code will have a '-' (hyphen) between the first five digits and the last four.	Text
PhoneNumber	Ten digit phone number	Text
StartDate	The date the listing was added (YYYYMMDD)	Text
TransactionDate	The last date a change was made to the listing (YYYYMMDD)	Text
ListingType	Listing type possible values: <ul style="list-style-type: none"> • Unknown • Business • BizRez 	Text

	<ul style="list-style-type: none">• Residential	
LineStatus	The line status of the phone number. Possible values are: <ul style="list-style-type: none">• Active• Can't confirm	Text

GetScreenPop_Premium

The GetScreenPop_Premium function returns contact data for the input phone number by searching both publicly available and proprietary data.

Input Parameters

Table 20 – GetScreenPop_Premium Parameters

Parameter	Description	Default Value
username	The user name assigned by PacificEast.	
password	The password assigned by PacificEast.	
referenceId	An identifier that can be used by the client application to uniquely identify the transaction. This text will be returned in the response.	
phoneNumber	The ten digit phone number (area code, exchange and line) without any formatting.	
jobCode	An identifier that can be included for reporting purposes. Queries with the same job code will be grouped together on the invoice from PacificEast.	

Output Parameters

The results of a GetScreenPop_Premium query are returned in a ScreenPopResponse object.

Table 21 - Response2 Fields

Field	Description	Data Type
ReferenceId	User reference ID if supplied in query.	Text
ListingsFound	Total number of listings matching given criteria.	Integer
ListingsReturned	Total number of listings returned to user.	Integer
ErrorCode	If the query executes successfully, this field will be empty. A value indicates an error occurred.	Text
ErrorDescription	If the query executes successfully, this field will be empty. Otherwise, the field will contain a description of the error that occurred.	Text
PhoneServiceType	Phone service type possible values: <ul style="list-style-type: none"> • Landline • Wireless / Cellular Phone • Beeper or Pager • Voice-Over-IP • Special service • Unknown or Multiples 	Text
CarrierGroup	Name of the telephone company.	Text
RestrictedData	Indicates if the data is from a data source that requires additional use restrictions. This will always be 'Y' (restricted) for GetScreenPop_Premium queries. Use of this data is subject to the additional use restrictions noted in the document entitled <i>"Highly Sensitive Data Addendum To Data License Agreement"</i> . Any use of the data returned by the GetScreenPop_Premium query for purposes other than those stated in this addendum is strictly prohibited.	Text (Y/N)
FirstName	First name / initial.	Text
LastName	Last name.	Text
BizGovName	Business or government name.	Text
Address1	Street address.	Text
Address2	Secondary street address.	Text
City	City.	Text
State	Two character state abbreviation.	Text
PostalCode	ZIP/postal code. If the ZIP+4 info is available the ZIP code will have a '-' (hyphen) between the first five digits and the last four.	Text
PhoneNumber	Ten digit phone number.	Text
StartDate	The date the listing was added (YYYYMMDD).	Text
TransactionDate	The last date a change was made to the listing (YYYYMMDD).	Text

ListingType	Listing type possible values: <ul style="list-style-type: none">• Unknown• Business• BizRez• Residential	Text
LineStatus	The line status of the phone number. Possible values are: <ul style="list-style-type: none">• Unknown• Active• Inactive• Can't confirm	Text

Obsolete Functions

The previous version of the *Integrated411* service provided three functions: *Lookup*, *Search* and *CentricSearch*. While these functions continue to work, it is strongly recommended that all new development be done using the new *GetListings* function. At this time there is no plan to discontinue support for the obsolete functions but they may not be available in future versions of the service.

If you are currently using the *Lookup*, *Search* or *CentricSearch* functions, please see the *Integrated411 Developer's Guide – Addendum* document for important information on changes to the functions. Contact your National Account Manager or email support@pacificeast.com to request a copy.

Examples

In the following examples, only those input parameters required for the query will be listed in the Input Parameters table. Any parameter not shown can be assumed to be blank.

Example 1 - GetListings

A basic query looking for a person with the last name of 'Johnson' in the town of Bellingham, WA.

Input parameters

Parameter	Value
username	user@company.com
password	abc123
lastName	Johnson
city	Bellingham
state	WA
queryType	Residential
page	1

XML Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetListings xmlns="http://secure.pacificeast.com/Integrated411/i411">
      <username>user@company.com</username>
      <password>abc123</password>
      <firstName></firstName>
      <lastName>Johnson</lastName>
      <bizGovName></bizGovName>
      <address></address>
      <city>Bellingham</city>
      <state>WA</state>
      <zip></zip>
      <phoneNumber></phoneNumber>
      <referenceId></referenceId>
      <showNonPublished></showNonPublished>
      <surroundMiles></surroundMiles>
      <queryType>Residential</queryType>
      <page>1</page>
      <requestKey></requestKey>
    </GetListings>
  </soap:Body>
</soap:Envelope>
```

Response

```
<?xml version="1.0" encoding="utf-8"?>
<Response2 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://securedev.pacificeast.com/Integrated411/i411">
  <ReferenceId />
  <TotalFound>290</TotalFound>
  <TotalReturned>30</TotalReturned>
  <ErrorCode>0000</ErrorCode>
  <ErrorDescription>Successful</ErrorDescription>
  <Listings>
    <Listing>
      <FirstName>E</FirstName>
      <LastName>Gissberg-Johnson</LastName>
      <Address> </Address>
      <City>Bellingham</City>
      <State>WA</State>
      <Zip>98226</Zip>
      <Phone>3606475253</Phone>
      <Latitude>48.782090N</Latitude>
      <Longitude>122.464210W</Longitude>
      <NonPublished>N</NonPublished>
      <TransactionDate>20080324</TransactionDate>
      <ListingType>RS</ListingType>
    </Listing>
  </Listings>
</Response2>
```

```

<Listing>
  <FirstName>A</FirstName>
  <LastName>Johnson</LastName>
  <Address> </Address>
  <City>Bellingham</City>
  <State>WA</State>
  <Zip>98225</Zip>
  <Phone>3603928620</Phone>
  <Latitude>48.749970N</Latitude>
  <Longitude>122.482550W</Longitude>
  <NonPublished>N</NonPublished>
  <TransactionDate>20080830</TransactionDate>
  <ListingType>RS</ListingType>
</Listing>

      ... Listings deleted for brevity ...

<Listing>
  <FirstName>Burton</FirstName>
  <LastName>Johnson</LastName>
  <Address>844 W Orchard Dr</Address>
  <City>Bellingham</City>
  <State>WA</State>
  <Zip>98225-1773</Zip>
  <Phone>3607339295</Phone>
  <Latitude>48.778810N</Latitude>
  <Longitude>122.480900W</Longitude>
  <NonPublished>N</NonPublished>
  <TransactionDate>20080722</TransactionDate>
  <ListingType>RS</ListingType>
</Listing>
<Listing>
  <FirstName>C J</FirstName>
  <LastName>Johnson</LastName>
  <Address>5149 Hannegan Rd</Address>
  <City>Bellingham</City>
  <State>WA</State>
  <Zip>98226-9753</Zip>
  <Phone>3603981434</Phone>
  <Latitude>48.825940N</Latitude>
  <Longitude>122.443150W</Longitude>
  <NonPublished>N</NonPublished>
  <TransactionDate>20080324</TransactionDate>
  <ListingType>RS</ListingType>
</Listing>
</Listings>
<RequestKey>30,0:-10.000000,R,,8180536094885L[-
122.486944:48.759722]:8180536094885:WA:0::;</RequestKey>
</Response2>

```

From the response, note that there are a total of 291 listings available that match the criteria (*TotalFound*) of which the first 30 are returned (*TotalReturned*).

Example 2 - GetListings

From the previous query, we know that a total of ten pages (291 / 30 rounded up) of listings are available that match the criteria of a last name of 'Johnson' in the city of Bellingham, WA. To obtain the fifth page of listings, we need to use the *RequestKey* field returned in the response of the first query and provide it as the value for the input parameter *requestKey* for the next query.

Input parameters

Parameter	Value
username	user@company.com
password	abc123
lastName	Johnson
city	Bellingham
state	WA
queryType	Residential
Page	5
requestKey	30,0:-10.000000,R,,8180536094885L[-122.486944:48.759722]:8180536094885:WA:0::;

XML Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetListings xmlns="http://secure.pacificeast.com/Integrated411/i411">
      <username>user@company.com</username>
      <password>abc123</password>
      <firstName></firstName>
      <lastName>Johnson</lastName>
      <bizGovName></bizGovName>
      <address></address>
      <city>Bellingham</city>
      <state>WA</state>
      <zip></zip>
      <phoneNumber></phoneNumber>
      <referenceId></referenceId>
      <showNonPublished></showNonPublished>
      <surroundMiles></surroundMiles>
      <queryType>Residential</queryType>
      <page>5</page>
      <requestKey>30,0:-10.000000,R,,8180536094885L[-
122.486944:48.759722]:8180536094885:WA:0::;</requestKey>
    </GetListings>
  </soap:Body>
</soap:Envelope>
```

Response

```
<?xml version="1.0" encoding="utf-8"?>
<Response2 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://securedev.pacificeast.com/Integrated411/i411">
  <ReferenceId />
  <TotalFound>289</TotalFound>
  <TotalReturned>30</TotalReturned>
  <ErrorCode>0000</ErrorCode>
  <ErrorDescription>Successful</ErrorDescription>
  <Listings>
    <Listing>
      <FirstName>Jay & Polly</FirstName>
      <LastName>Johnson</LastName>
      <Address>2813 Alderwood Ave</Address>
      <City>Bellingham</City>
      <State>WA</State>
      <Zip>98225-1224</Zip>
      <Phone>3606470659</Phone>
      <Latitude>48.779860N</Latitude>
      <Longitude>122.504070W</Longitude>
      <NonPublished>N</NonPublished>
      <TransactionDate>20080324</TransactionDate>
      <ListingType>RS</ListingType>
    </Listing>
    ... Listings deleted for brevity ...
    <Listing>
      <FirstName>Kevin</FirstName>
      <LastName>Johnson</LastName>
      <Address>3219 Racine St</Address>
      <City>Bellingham</City>
      <State>WA</State>
      <Zip>98226-3670</Zip>
      <Phone>3606717927</Phone>
      <Latitude>48.773880N</Latitude>
      <Longitude>122.453290W</Longitude>
      <NonPublished>N</NonPublished>
      <TransactionDate>20080618</TransactionDate>
      <ListingType>RS</ListingType>
    </Listing>
  </Listings>
  <RequestKey>30,0:-10.000000,R,,8180536094885L[-
122.486944:48.759722]:8180536094885:WA:0::;</RequestKey>
</Response2>
```

Example 3 - GetListings

If we have additional information about the person being searched for, it can be used to refine the query so that fewer listings are returned. To continue with our example from above, if it was known that the person lived on Erie Street but the house number was not known, the query could be refined as shown. Note that we are NOT using the requestKey and a page number as we have added additional criteria (the *address* parameter) and have therefore begun a new search.

Input parameters

Parameter	Value
username	user@company.com
password	abc123
lastName	Johnson
address	Erie
city	Bellingham
state	WA
queryType	Residential
page	1

XML Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetListings xmlns="http://secure.pacificeast.com/Integrated411/i411">
      <username>user@company.com</username>
      <password>abc123</password>
      <firstName></firstName>
      <lastName>Johnson</lastName>
      <bizGovName></bizGovName>
      <address>Erie</address>
      <city>Bellingham</city>
      <state>WA</state>
      <zip></zip>
      <phoneNumber></phoneNumber>
      <referenceId></referenceId>
      <showNonPublished></showNonPublished>
      <surroundMiles></surroundMiles>
      <queryType>Residential</queryType>
      <page>1</page>
      <requestKey></requestKey>
    </GetListings>
  </soap:Body>
</soap:Envelope>
```

Response

```
<?xml version="1.0" encoding="utf-8"?>
<Response2 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://securedev.pacificeast.com/Integrated411/i411">
  <ReferenceId />
  <TotalFound>1</TotalFound>
  <TotalReturned>1</TotalReturned>
  <ErrorCode>0000</ErrorCode>
  <ErrorDescription>Successful</ErrorDescription>
  <Listings>
    <Listing>
      <FirstName>Donnell</FirstName>
      <LastName>Johnson</LastName>
      <Address>2021 Erie St</Address>
      <City>Bellingham</City>
      <State>WA</State>
      <Zip>98229-4146</Zip>
      <Phone>3607346108</Phone>
      <Latitude>48.756390N</Latitude>
      <Longitude>122.434290W</Longitude>
      <NonPublished>N</NonPublished>
      <TransactionDate>20080502</TransactionDate>
      <ListingType>RS</ListingType>
    </Listing>
  </Listings>
```

```
<RequestKey />
</Response2>
```

The response indicates that only one listing matches the input criteria. The person being searched for has been found.

Example 4 - GetListings

Multiple features can be combined in a single query. In this example, we will use a wildcard to search for a last name that begins with 'Mai'. The *surroundMiles* parameter will be used to search Bellingham and the area around it in a twenty-five mile radius.

Input parameters

Parameter	Value
username	user@company.com
password	abc123
lastName	Mai*
city	Bellingham
state	WA
surroundMiles	25
queryType	Residential
page	1

XML Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetListings xmlns="http://secure.pacificeast.com/Integrated411/i411">
      <username>user@company.com</username>
      <password>abc123</password>
      <firstName></firstName>
      <lastName>Mai*</lastName>
      <bizGovName></bizGovName>
      <address>Erie</address>
      <city>Bellingham</city>
      <state>WA</state>
      <zip></zip>
      <phoneNumber></phoneNumber>
      <referenceId></referenceId>
      <showNonPublished></showNonPublished>
      <surroundMiles>25</surroundMiles>
      <queryType>Residential</queryType>
      <page>1</page>
      <requestKey></requestKey>
    </GetListings>
  </soap:Body>
</soap:Envelope>
```

Response

```
<?xml version="1.0" encoding="utf-8"?>
<Response2 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://securedev.pacificeast.com/Integrated411/i411">
  <ReferenceId />
  <TotalFound>48</TotalFound>
  <TotalReturned>30</TotalReturned>
  <ErrorCode>0000</ErrorCode>
  <ErrorDescription>Successful</ErrorDescription>
  <Listings>
    <Listing>
      <FirstName>R</FirstName>
      <LastName>Mai</LastName>
      <Address>8509 Semiahmoo Dr</Address>
      <City>Blaine</City>
      <State>WA</State>
      <Zip>98230-9310</Zip>
      <Phone>3603712367</Phone>
      <Latitude>48.957740N</Latitude>
      <Longitude>122.810910W</Longitude>
```

```
<NonPublished>N</NonPublished>
<TransactionDate>20080324</TransactionDate>
<ListingType>RS</ListingType>
</Listing>
```

... Listings deleted for brevity ...

```
<Listing>
  <FirstName>Gerald E</FirstName>
  <LastName>Main</LastName>
  <Address>408 Hillcrest Way</Address>
  <City>Bellingham</City>
  <State>WA</State>
  <Zip>98225-6417</Zip>
  <Phone>3607331293</Phone>
  <Latitude>48.731040N</Latitude>
  <Longitude>122.492640W</Longitude>
  <NonPublished>N</NonPublished>
  <TransactionDate>20080324</TransactionDate>
  <ListingType>RS</ListingType>
</Listing>
</Listings>
<RequestKey>30,0:40.233600,R,,8180536094885L[-
122.486944:48.759722]:8180536094885:WA:0::;</RequestKey>
</Response2>
```

The response shows that a total of 48 listings with a last name that begins with 'Mai' in the area around Bellingham were returned.