

Elected Officials Communication Service (EOCS) Developer Guide

The KnowWho Elected Officials Communications Service (EOCS) was developed to facilitate electronic communication with elected officials through the most efficient methodology, including e-mail, automatic web form submission, and the new Communicating with Congress service. The EOCS accepts and returns strings of XML and JSON, with the input containing standardized values for electronic message processing and the output containing a summary of the results of the submission(s).

SUBMITTING INPUT XML

```
<KnowWho>
      <Customer>
            <CustomerCode></ CustomerCode>
            <ExcludePeople></ ExcludePeople >
            <ExcludeMajMin></ ExcludeMajMin>
            <ExcludeParty></ ExcludeParty>
            <ExcludeGender></ ExcludeGender>
            <USExecutive>Y</ USExecutive>
            <USSenate>Y</ USSenate>
            <USHouse>Y</ USHouse>
            <StateExecutive>N</ StateExecutive>
            <StateSenate>N</ StateSenate>
            <StateHouse>N</ StateHouse>
            <CountyExecutive>N</ CountyExecutive>
            <CountyLegislature>N</ CountyLegislature>
            <MunicipalExecutive>N</ MunicipalExecutive>
            <MunicipalLegislature>N
/ MunicipalLegislature>
      </Customer>
      <FormData>
            ** see instructions below
      </FormData>
</KnowWho>
```

SUBMITTING INPUT JSON

```
{

"Customer": {

"CustomerCode": "[value]",

"ExcludePeople": "[value(s)]",

"ExcludeMajMin": "[value(s)]",

"ExcludeGender": "[value(s)]",

"USExecutive": "Y",

"USHouse": "Y",

"StateExecutive": "N",

"StateHouse": "N",

"CountyLegislature": "N",
```

Page 1 of 11 Updated 5/31/2013



```
"MunicipalExecutive": "N",
    "MunicipalLegislature": "N",
},
    "FormData": {
        ** see instructions below
}
}
```

CustomerCode

You should submit the code given to you at the time of registration. If you have not received a code, please contact our customer support.

ExcludePeople

This node accepts one or more PersonID values obtained from either the response from an EODS request or any KnowWho data service to which you are subscribed. The entry can be a single value or multiple values separated by commas without any spaces. Any person identified in this node will be excluded from message processing for that particular call to the service.

ExcludeMajMin

This node accepts one of three values: "MAJ", "MIN", or a blank entry. "MAJ" will exclude all identified members of the majority and "MIN" will exclude all identified members of the minority.

ExcludeParty

This node accepts one of four values: "R", "D", "O", or a blank entry. "R" will exclude all identified members of the Republican Party, "D" will exclude all identified members of the Democratic Party, and "O" will exclude all identified members of any other party.

ExcludeGender

This node accepts one of three values: "M", "F", or a blank entry. "M" will exclude all identified male officials and "F" will exclude all identified female officials.

The exclusion filters are limited to the use of ExcludePeople alone; ExcludeMajMin may be combined with ExcludeGender only; ExcludeParty may be combined with ExcludeGender; all filters may be used individually. Any other combination in the request will return an error.

For each of the other nodes, use "Y" or "N" as the node text to designate whether or not you would like to contact the elected officials represented by that branch/level of government. Please note: if you submit a "Y" value for a level of government you are not subscribed to, your information will not be submitted to any elected officials at that level.

Page 2 of 11 Updated 5/31/2013



FORM DATA FIELDS

The following fields are **required** in the FormData node, with these node names and the described guidelines for the values (where applicable):

- 1. PrefixCode: integer value from the list of acceptable prefix options (see "Value Options")
- 2. FirstName
- 3. LastName
- 4. Address1
- 5. City
- 6. State
- 7. ZipCode: five-digit zip code (5 digits, no punctuation)
- 8. Telephone
- 9. Email
- 10. Issue: integer value from the list of acceptable issue options (see "Value Options")
- 11. Subject: brief description of the message content
- 12. Message: text of the message

The following fields are **optional**, with the same details as above:

- 1. SuffixCode: integer value from the list of the acceptable suffix options (see "Value Options")
- 2. Address2
- 3. Fax
- 4. Plus4: four-digit zip code extension (4 digits, no punctuation)

FIELD VALUE OPTIONS

Prefixes:

Mr.	01
Mrs.	02
Ms.	03
Miss	04
Hon.	05
Dr.	08
Rev.	09
Prof.	10
Dean	11
Pres.	12
Rabbi	30
Iman	31

Suffixes:

Jr.	01
Sr.	02
II (Second)	03
III (Third)	04
IV (Fourth)	05

Page 3 of 11 Updated 5/31/2013



Issues:

issues:	
Abortion	56
Acquisitions	57
Aerospace / Space	40
Agriculture / Food	2
Animal Rights	3
Appropriations	4
Arts / Humanities	5
Banking	58
Budget	59
Elections / Campaigns	8
Census / Redistricting	9
Commerce / Business	7
Communications	12
Congress	60
Consumer Affairs	13
Crime / Law Enforcement	14
Disabilities / ADA	16
Disaster / Emergency Management / FEMA	17
Economic Development / Economic Policy	
• • • • • • • • • • • • • • • • • • • •	55
Education / Schools	18
Energy / Utilities	19
Entertainment / Media	20
Environment / Natural Resources	21
Family / Children	10
Finance	6
Foreign Policy / International Affairs	22
Gambling	61
Government Operations / Government Reform	23
Grants / Interns	41
Gun Issues	62
Health / Medicine	24
Homeland Security / Terrorism	25
Housing	26
Human Rights / Civil Rights	11
Immigration	27
Insurance	49
Intelligence / Counterintelligence	28
Intergovernmental Affairs / State / Local	53
Internet / Social Media	69
Judiciary / Law / Courts	29
Labor / Jobs / Pensions	30
Land Use / Water / Oceans	46
Lobbying / Politics	63
Logistics / Planning	52
Medicare / Medicaid	31
Military / Defense	15
Minority / Ethnic	33
-11	

Page 4 of 11 Updated 5/31/2013

P.O. Box 62, Mount Vernon, VA 22121 703.619.1544 (p) | 703.619.1545 (f) www.KnowWho.com | info@KnowWho.com

National Security	64
Native American Affairs	65
Privacy / Personal Rights	70
Public Affairs / Outreach	54
Public Works / Infrastructure	32
Recreation / Sports / Parks	34
Regulation / Regulatory	50
Religion	35
Rules / Ethics	36
Rural Affairs	37
Science	38
Seniors / Aging / Elderly	1
Small Business	66
Social Security	39
Tax / Revenue	42
Technology	67
Telecommunications	68
Trade / Exports / Imports	43
Transportation	44
Urban Affairs / Urban Development	51
Veterans Affairs	45
Welfare / Social Issues	47
Womens Issues	48

Page 5 of 11 Updated 5/31/2013



SERVICE OUTPUT XML

The output XML will use the following format:

```
<KnowWho>
      <Customer>
            <CustomerCode></ CustomerCode>
            <RemainingCredits></ RemainingCredits>
            <ReturnCode></ ReturnCode>
      </Customer>
      <USGovernment>
            <ElectedOfficial>
                   <PersonID></ PersonID>
                   <PositionID></ PositionID>
            </ ElectedOfficial>
      </USGovernment>
      <StateGovernment>
            <ElectedOfficial>
                   <PersonID></ PersonID>
                   <PositionID></ PositionID>
            </ ElectedOfficial>
      </StateGovernment>
      <LocalGovernment>
            <ElectedOfficial>
                   <PersonID></ PersonID>
                   <PositionID></ PositionID>
            </ ElectedOfficial>
      </LocalGovernment>
</KnowWho>
```

Page 6 of 11 Updated 5/31/2013



SERVICE OUTPUT JSON

```
The output JSON will use the following format:
  "KnowWho": {
     "Customer": {
       "CustomerCode": "",
       "RemainingCredits": "",
       "ReturnCode": ""
     "USGovernment": {
       "ElectedOfficial": {
         "PersonID": "",
         "PositionID": ""
    },
     "StateGovernment": {
       "ElectedOfficial": {
         "PersonID": "",
         "PositionID": ""
     'LocalGovernment": {
       "ElectedOfficial": {
         "PersonID": ""
         "PositionID": ""
```

SERVICE OUTPUT FIELDS

The CustomerCode node will reiterate the submitted CustomerCode.

The RemainingCredits node will display the customer's credit balance after processing the request.

The ReturnCode will display a status to summarize the service request. Possible values are:

- "NOT AUTHORIZED": An error occurred while validating the customer. Possible causes include
 an inactive account, access from an IP address that has not been submitted to KnowWho, and
 an incorrect CustomerCode value. Please contact our customer support for a resolution.
- "INSUFFICIENT CREDITS": The customer does not have enough credits to complete the requested form submission(s). Please contact our customer support to increase your credits.
- "NOT FOUND": The address values (Address1, Address2, City, State, ZipCode, and Plus4) were not able to be resolved to an address or the officials for the address could not be determined.
- "INCOMPLETE": Only a portion of the attempted form submissions were completed successfully. This could be caused by an incorrect zip code and/or 4-digit extension.
- "OK": All elected officials were found successfully and all possible form submissions were sent.

Page 7 of 11 Updated 5/31/2013



INTEGRATION WITH THE SERVICE

URL for service access:

http://www.knowwho.info/Services/ElectedOfficialsCommunicationsService.asmx

Developer's notes:

To maintain standardization across languages, the service accepts an object of type String and returns an object of type String. The returned XML String contains root attributes of version 1.0 and char-set utf-8.

XML CODE SAMPLES

From C#:

 In Visual Studio, Add Web Reference to http://www.knowwho.info/Services/ElectedOfficialsCommunicationsService.asmx

```
// declare and build String containing XML
string xmlString = "<KnowWho><Customer> ... </FormData></KnowWho>";

// declare new instance of the service
Namespace.ReferenceName.ElectedOfficialsCommunicationsService
serviceInstance = new Namespace.ReferenceName.
ElectedOfficialsCommunicationsService();

// call the appropriate function, passing the string
string returnedXml = serviceInstance.GetService(xmlString);

// if all was successful, returnedXml now contains a string
// representation of the returned XML
```

From VB.NET:

 In Visual Studio, Add Web Reference to http://www.knowwho.info/Services/ElectedOfficialsCommunicationsService.asmx

```
// declare and build String containing XML
Dim xmlString As String
xmlString = "<KnowWho><Customer> ... </FormData></KnowWho>";

// declare new instance of the service
Dim serviceInstance As New
Namespace.ReferenceName.ElectedOfficialsCommunicationsService()

// call the appropriate function, passing the String
Dim returnedXml As String
returnedXml = serviceInstance.GetService (xmlString)

// if all was successful, returnedXml now contains a string
// representation of the returned XML
```

Page 8 of 11 Updated 5/31/2013



From PHP:

Use PHP's SoapClient to establish a connection to the web service

```
// declare and build String containing XML
$xmlString = "<KnowWho><Customer> ... </FormData></KnowWho>";

// declare new instance of the service
$client = new SoapClient(http://www.knowwho.info/Services/
ElectedOfficialsCommunicationsService.asmx);

// call the appropriate function, passing the string
$returnedXml = $client->GetService(array('InputString' => $ xmlString));

// if all was successful, $returnedXml now contains a string
// representation of the returned XML
```

From Java:

 Use the "wsimport" command to import the WSDL and create the proxy class (http://www.knowwho.info/Services/ElectedOfficialsCommunicationsService.asmx?WSDL)

```
// declare and build String containing XML
string xmlString = "<KnowWho><Customer> ... </FormData></KnowWho>";

// declare new instance of the service
Namespace.ElectedOfficialsCommunicationsService serviceInstance = new
Namespace.ElectedOfficialsCommunicationsService();

// call the appropriate function, passing the string
string returnedXml = serviceInstance.GetService(xmlString);

// if all was successful, returnedXml now contains a string
// representation of the returned XML
```

From Ruby:

Include require 'soap/wsdlDriver'

```
# declare and build String containing XML
_xmlString = "<KnowWho><Customer> ... </FormData></KnowWho>";

# declare new instance of the service and call the appropriate
# function, passing the string
SOAP::WSDLDriverFactory.new('http://knowwho.info/Services/ElectedOfficialsCo
mmunicationsService.asmx?WSDL').GetService({ 'InputString' => _xmlString
}).GetServiceResult;

# call the appropriate function, passing the string
_returnedXml = serviceInstance.GetService(xmlString);

# if all was successful, returnedXml now contains a string
# representation of the returned XML
```

Page 9 of 11 Updated 5/31/2013



JSON CODE SAMPLES

From C#:

 In Visual Studio, Add Web Reference to http://www.knowwho.info/Services/ElectedOfficialsCommunicationsService.asmx

```
// declare and build String containing JSON
string jsonString = "{ KnowWho: { Customer: { ... }}}";

// declare new instance of the service
Namespace.ReferenceName.ElectedOfficialsCommunicationsService
serviceInstance = new Namespace.ReferenceName.
ElectedOfficialsCommunicationsService();

// call the appropriate function, passing the string
string returnedJson = serviceInstance.GetService(jsonString);

// if all was successful, returnedJson now contains a string
// representation of the returned JSON
```

From VB.NET:

 In Visual Studio, Add Web Reference to http://www.knowwho.info/Services/ElectedOfficialsCommunicationsService.asmx

```
// declare and build String containing JSON
Dim jsonString As String
jsonString = "{ KnowWho: { Customer: { ... }}}";

// declare new instance of the service
Dim serviceInstance As New
Namespace.ReferenceName.ElectedOfficialsCommunicationsService()

// call the appropriate function, passing the String
Dim returnedJson As String
returnedJson = serviceInstance.GetService (jsonString)

// if all was successful, returnedJson now contains a string
// representation of the returned JSON
```



From PHP:

- Use PHP's SoapClient to establish a connection to the web service

```
// declare and build String containing JSON
$jsonString = "{ KnowWho: { Customer: { ... }}}";

// declare new instance of the service
$client = new SoapClient(http://www.knowwho.info/Services/
ElectedOfficialsCommunicationsService.asmx);

// call the appropriate function, passing the string
$returnedJson = $client->GetService(array('InputString' => $ jsonString));

// if all was successful, $returnedJson now contains a string
// representation of the returned JSON
```

From Java:

 Use the "wsimport" command to import the WSDL and create the proxy class (http://www.knowwho.info/Services/ElectedOfficialsCommunicationsService.asmx?WSDL)

```
// declare and build String containing JSON
string jsonString = "{ KnowWho: { Customer: { ... }}}";

// declare new instance of the service
Namespace.ElectedOfficialsCommunicationsService serviceInstance = new
Namespace.ElectedOfficialsCommunicationsService();

// call the appropriate function, passing the string
string returnedJson = serviceInstance.GetService(jsonString);

// if all was successful, returnedJson now contains a string
// representation of the returned JSON
```

From Ruby:

Include require 'soap/wsdlDriver'

```
# declare and build String containing JSON
_jsonString = "{ KnowWho: { Customer: { ... }}}";

# declare new instance of the service and call the appropriate
# function, passing the string
SOAP::WSDLDriverFactory.new('http://knowwho.info/Services/ElectedOfficialsCommunicationsService.asmx?WSDL').GetService({ 'InputString' => _jsonString}).GetServiceResult;

# call the appropriate function, passing the string
_returnedJson = serviceInstance.GetService(jsonString);

# if all was successful, returnedJson now contains a string
# representation of the returned JSON
```