



Your Address Quality Firewall

CONTENTS

Preface
System Requirements2
Server
Workstation2
Quick Setup Steps2
Review of Product
Address Lookup Window
Fields3
Buttons3
Address Entry Process
Browse Tab5
Buttons5
Address Browse Process
Usage Instructions
Sample Architechture for ABC, Inc
AccuMail Verify Flex Object9
JavaScript function
HTML Form Elements
Optional Custom Configurations
Lookup Service
UI Widgets12
Security
Return codes for CASS certification14
FAQ14
Additional Help and Contact Details15

PREFACE

AccuMail Verify is a web component used to query, select and insert correct addresses into your form quickly and easily as you type address information. The Flex based web control is designed for ease of integration into internet applications. The user interface is customizable through configurations to smoothly integrate with your existing application.

SYSTEM REQUIREMENTS

SERVER

Standard web server capable of delivering Flash/Flex content over http(s).

Examples include IIS, Apache, Websphere, Weblogic, Glassfish etc.

WORKSTATION

Standard web browser with version 9+ of Adobe flash player installed capable of loading Flash/Flex content. Examples include Internet Explorer, Firefox, Safari, Chrome etc.

256 MB RAM

Internet access (address data is returned from the SmartSoft web service to the client)

QUICK SETUP STEPS

- 1. Extract the contents of the zip file to a directory served by your web server.
- Point a browser to the URL for your server and the index.html page that was extracted to the server directory.
- 3. Enter your username, license key and toolkit license key when prompted by the application on the first use. Credentials will be prompted whenever AccuMail Verify is used in a new domain.
- 4. Contact Datatech SmartSoft if you have not received this information using the contact information below.
- 5. Start correcting addresses



The main control contains two sliding windows: Address Lookup and Browse

ADDRESS LOOKUP WINDOW

The **Address Lookup** window allows users to manually enter data for validation. Use the tab key to navigate through the fields.

ddress Corre	ection		
Zip			
State		City	
Address			
Suite			
Company			
	Verify		Clear

FIELDS

- Zip
- State
- City
- Address
- Suite
- Company

BUTTONS

- Verify button triggers an address validation to ensure the exact address exists as a delivery point (DPV).
- Clear button clears all the data from the control.

ADDRESS ENTRY PROCESS

- 1. Enter *ZIP Code* and press **Tab** the **State** field will populate automatically.
- 2. Press **Tab** *City* will either populate automatically, or if multiple Cities are located in a single ZIP Code, available matching city data is displayed in the dropdown as additional City data is entered. You may also navigate through available matching cities using the arrow keys on your keyboard; press enter to choose desired City.
- 3. Press **Tab** and begin typing *Address Number*. Available matching addresses are displayed in the dropdown as more address data is entered. You may also navigate through available matching addresses using the arrow keys on your keyboard; press enter to choose desired address. *Example below*

ldress Corr	ection			
ip	91301			
tate	CA	City	Agoura Hills	
ddress	30101 Agoura Ct			7
uite	30101-30101 Agoura Ct			
	30100-30103 Agoura Ct			
ompany				
	Verify		Clear	

4. Press **Verify** to trigger a query to append the +4 to the ZIP Code and to complete the address entry and correction process. The complete address element data is displayed below.

Accumail Verify	returned the following addres	ss elements:	
Zip	91301 - 4300	State	CA
City	Agoura Hills	Street	30101 Agoura Ct
Company		Suite	
Urbanization			
	Verify Clear		
CRRT (Carrier Route)	C006		
Lookup Return	0	Lookup Return	The address has been successfully coded.
Code		Code Description	
DPV Return	ΔΔΝ1	DPV Return	Input address matched to the ZIP+4 file.
Code		Code Description	Input address primary 🏑
Verify Details	LACS: PMB: RDI: County: Los Angeles CountyNumber: 037 CongressionalDistrict: 30 Barcode: 913014300991 DeliveryPoint: 991 RecordType: H IsRuralRouteDefault: false IsHighriseDefault: true		
-	_	_	

BROWSE TAB

The **Browse** Tab allows the user to manually browse the address data based on a ZIP Code.

The browse feature can be used at any point during address entry. This tab allows you to view the USPS[®] Data to find the correct address. Simply double click on the line you need to select or click on the buttons under the browse window.

ddress Correction							
rowse						_	
4082-4098 Yanke Agoura Hills, CA 91	e Dr 1301					- 8	
Select Street							
Street							
Woodglen Dr						<u>-</u>	
Yankee Dr							
Yerba seca Ave							
De berry Dr							
De vore Ct Select City		Select St	reet #		Accept		
De vore Ct Select City	(Select St	reet #		Accept		·
De vore Ct Select City	,(Select St	reet #		Accept		
De vore Ct Select City	, (077-30077 100-30198	Select St	reet #		Accept		
De vore Ct Select City 30 30	, (077-30077 100-30198 101-30101	Select St	reet #		Accept		
De vore Ct Select City 30 30	, (077-30077 1000-30198 101-30101	Select St	reet #		Accept		
De vore Ct Select City 30 30	(077-30077 100-30198 101-30101 Select Street	Select St	reet #	Suite	Accept	Accept	
Select City Select City 30 30	(077-30077 100-30198 101-30101 Select Street Ste 1	Select St	reet #	Suite	Accept	Accept	
Select City Select City 30 30 30	/ (077-30077 100-30198 101-30101 Select Street Ste 1 Ste 1 Ste 1	Select St 23 to 123 25 to 125	reet #	Suite	Accept	Accept	
De vore Ct Select City 30 30 30	077-30077 100-30198 101-30101 Select Street Ste 1 Ste 1 Ste 1 Ste 1 Ste 1	Select St Select St 23 to 123 25 to 125 30 to 130	reet #	Suite	Accept	Accept	

BUTTONS

•

- Select City Allows user to choose a specific City if multiple cities are located in a single ZIP Code; available matching city data is displayed
- Select Street # Allows user to choose a specific Street
 - **Select Suite #** Allows user to choose a specific Suite number
- Select Company Allows user to choose a specific Company Name
- Accept Completes browse function and transitions to Address Lookup tab to complete the address entry process

5

ADDRESS BROWSE PROCESS

1. Enter *ZIP Code* on the Address Lookup tab Press the *Browse* Tab.

The *City* will either populate automatically and display available Streets (*see example B*) or if multiple Cities are located in a single ZIP Code, available matching city data is displayed (*see example A*).

Example A

2. Select desired *City* then press *Select Street*.



3. Begin typing desired *Street* name until match is found then press *Select Street #*.



Example B

4. Select Number then press *Accept* (see example C) or press **Select Suite** if applicable then press *Accept* (see example D).

ddress Correction	Address Correction	
owse	Browse	
0101 Agoura Ct goura Hills, CA 91301 ∙elect Street ≠	30101 Agoura Ct Ste 1** Agoura Hills, CA 91301 Select Suite	
Number	Suite	
0000-30098	A Ste 118 to 119	
0001-30099	Ste 120 to 120	
0077-30077	Ste 123 to 123	
0100-30198	Ste 125 to 125	
0101-30101	Ste 130 to 130	
Select Street Select Suite Acc	ept Select Street #	Select Company Accept

5. Complete the address or suite number indicated by **.

ddress Corre	ection				
Zip	91301				
State	CA		City	Agoura Hills	
Address	30101 Agoura Ct				
Suite	Ste 1**				
Company	Apt 513 to 514 Apt 403 to 414 Apt 301 to 314 Apt 601 to 614 Ste B to B Ste 3 to 3			Clear	
	Ste 1 to 1	•			

6. Press the *Verify* button to trigger a query for the +4 and to complete process. ZIP+4 is appended and address elements are displayed.

- 4301 Hills	State Street Suite	CA 30101 Agoura Ct Ste 118
Hills	Street Suite	30101 Agoura Ct Ste 118
	Suite	Ste 118
Clear		
	Lookup Return Code Description	The address has been successfully coded.
	DPV Return Code Description	Input address matched to the ZIP+4 file.
7: Los Angeles (Number: 037 ssionalDistrict: 30 ie: 913014301431 sryPoint: 431 HType: H hlRouteDefault: false nriseDefault: false	ſ	
	7: Los Angeles Yumber: 037 issionalDistrict: 30 le: 913014301431 iryPoint: 431 IType: H lRouteDefault: false iriseDefault: false	Lookup Return Code Description DPV Return Code Description



USAGE INSTRUCTIONS

The AccuMail Verify user control is a Flex object that is referenced by a web paged served by your server. The simplest configuration involves unzipping the downloaded zip file and copying the contents to a website directory currently served by your server. The included index.html has the basic building blocks for integrating the control into your website and will work for address correction "out of the box".

SAMPLE ARCHITECHTURE FOR ABC, INC.



To integrate the corrected addresses and push the values back to your server side, the following 3 dependencies should be understood.

- AccuMail Verify Flex Object
- JavaScript function exposeAccumailVerifyAddress
- Form Elements

The AccuMail Verify Flex Object calls a JavaScript function exposeAccumailVerifyAddress whenever an address is corrected. The JavaScript function takes the values from the AccuMail Verify Flex Object and pushes them to the HTML form elements. These form elements can be text inputs as the index.html example contains or hidden attributes. The JavaScript example sets the form elements but can also be changed to set the values to whatever form elements may exist in your current web form.



ACCUMAIL VERIFY FLEX OBJECT

To include the Flex object in your page the following object reference is required:

index.html <noscript> <object classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000" id="AccumailVerifyFlexApp" width="600" height="302" codebase="http://fpdownload.macromedia.com/get/flashplayer/current/swflash.cab"> <param name="movie" value="http://ncoa.smartsoftwebservices.com/AccumailVerify v01/web/AccumailVerifyFlexApp.swf" /> <param name="quality" value="high" /> <param name="bgcolor" value="#869ca7" /> <param name="allowScriptAccess" value="always" /> <embed src="http://ncoa.smartsoftwebservices.com/AccumailVerify_v01/web/AccumailVerifyFlexApp.swf" quality="high" bgcolor="#869ca7" width="600" height="302" name="AccumailVerifyFlexApp" align="middle" play="true" loop="false" quality="high" allowScriptAccess="always" type="application/x-shockwave-flash" pluginspage="http://www.adobe.com/go/getflashplayer"> </embed> </object>

. .

</noscript>

JAVASCRIPT FUNCTION

To tie the AccuMail Verify object to the form elements the following JavaScript function is required:

index.html

<script language="JavaScript" type="text/javascript">

// AccuMail Verify Callout function that sets values of fields / hidden or visible on your web form
function exposeAccumailVerifyAddress(Street, City,State, Zip, PlusFour, Company, SuiteSUD, ResultCode,
ResultCodeDesc){

document.getElementById('calloutAccumailVerifyStreet').value = Street; document.getElementById('calloutAccumailVerifyCity').value = City; document.getElementById('calloutAccumailVerifyState').value = State; document.getElementById('calloutAccumailVerifyZip').value = Zip; document.getElementById('calloutAccumailVerifyPlusFour').value = PlusFour; document.getElementById('calloutAccumailVerifyCompany').value = Company; document.getElementById('calloutAccumailVerifySuite').value = SuiteSUD; document.getElementById('calloutAccumailVerifyLookupReturnCode').value = ResultCode; document.getElementById('calloutAccumailVerifyLookupReturnCodeDesc').value = ResultCodepesc;

}

</script>

HTML FORM ELEMENTS

Table that contains all of the form elements set by the JavaScript function:

index.html

AccuMail Verify returned the following address elements:

Streetinput type='text' id='calloutAccumailVerifyStreet' />

Citycinput type='text' id="calloutAccumailVerifyCity" />

State<input type='text' id="calloutAccumailVerifyState" />

Zip<input type='text' id="calloutAccumailVerifyZip" />

Plus Four<input type='text' id="calloutAccumailVerifyPlusFour" />

Company<input type='text' id="calloutAccumailVerifyCompany" />

Suite<input type='text' id="calloutAccumailVerifySuite" />

Lookup Return Code<input type='text' id="calloutAccumailVerifyLookupReturnCode" />



OPTIONAL CUSTOM CONFIGURATIONS

AccuMail Verify configurations are stored in the AccumailVerifyConfig.xml file included in the downloaded zip file. This file allows you to configure user interface controls to more readily conform to your existing application. In order to use the custom configurations rather than the default configurations you will need to include a JavaScript function "fetchCustomConfig()" and point to your AccumailVerifyConfig.xml file. The included index.html also includes the fetchCustomConfig function.

Optional Custom Configuration JavaScript

function fetchCustomConfig(){

return "http://www.xyzcompany.com/xyzcompany/verify_remote/AccumailVerifyConfig.xml";

}

LOOKUP SERVICE

The Auto redirect to browse on error controls the flow in the UI when a Lookup is triggered on an incorrect address. If this is configured to true, the control will automatically redirect the user to the browse tab to help the user search for the correct address.

AccumailVerifyConfig.xml

<lookup_service>

<!-- if true, the user will be automatically redirected to the browse tab when a lookup fails to return a matched address -->

<auto_redirect_browse_on_error>true</auto_redirect_browse_on_error></lookup_service>



UI WIDGETS

Labels, Buttons and Input Fields in Address Lookup can be configured to have custom visibility, x & y coordinates, font styles, bold, underline, italics, font sizes and font color. This allows you to customize and rearrange the entire Address Lookup UI to fit your requirements.

- Labels can additionally be configured to have custom text. For example you may want the label for Zip to read as "Zip code".
- Buttons can additionally be configured to have custom text, width, height, tab index, hot keys and background color.
- Input Fields can additionally be configured to have custom width, height, tab index and background color.
- The main form can be configured to have custom visibility, width, height.

AccumailVerifyConfig.xml

<!-- Config for Street Input-->

<street_input>

<visible>true</visible> <x_coord>98</x_coord> <y_coord>74</y_coord> <width>420</width> <height>22</height> <font_style>Verdana</font_style> <font_effect>None</font_effect> <!-- None, Bold, Italic, Underline --> <font_size>16</font_size> <font_color>black</font_color> <back_color>white</back_color> <tab_index>4</tab_index>

</street_input>

<street_label>

<label_text>Address</label_text> <visible>true</visible> <x_coord>10</x_coord> <y_coord>74</y_coord> <font_style>Verdana</font_style> <font_effect>None</font_effect> <!-- None, Bold, Italic, Underline --> <font_size>16</font_size> <font_color>black</font_color> </street label>

AccumailVerifyConfig.xml

<!-- Config for Main Form-->

<main_form_config>
HTML color codes (#FFDD77, #CCAA22 etc.)
or specific color (white, black, blue etc.)-->
<back_color>#D2DDE1</back_color>
-> Default Size (Width=742 Height=342).
The size specified in your form will override this value -->
<width>600</width>
<height>300</height>



SECURITY

Security is enforced with a set of keys setup by the first use of the AccuMail Verify product and matches within your domain on the SmartSoft lookup server. Upon initial access the AccuMail Verify Credential Setup window requires you to enter your Username, License Key and Tool License Key for the domain that is serving the AccuMail Verify Object.

Accumail Verify Credential Setup	×
Please enter credentials received from Smart	Soft, Inc.
Username	
License Key	
Toolkit License Key	i
	Submit
Varify	Ciebr Roset
rowse	

Whenever the application is referenced from a new domain, the credential will need to be added again. For example, if you have development, test and production environments you would need to input the security credentials one time for each environment. The credentials will be prompted for any first access via a new domain. If you have multiple domains serving the same application, such as the following, then you would need to submit the credentials once per domain:

- www.xyzcompany.com
- xyzcompany.com
- addresscorrection.xyzcompany.com

als received from SmartSoft, Inc.		
my username		
936DA01F-9ABD-4d9d-80C7-02AF85C822	-	
536DA01F-2ABD-5d9d-90CF-02AF85C833F		
Submit		
rify	inar (Reset
	als received from SmartSoft, Inc. my username 036DA01F-9ABD-4d9d-80C7-02AF85C822 536DA01F-2ABD-5d9d-90CF-02AF85C833F Submit	als received from SmartSoft, Inc. my username 336DA01F-9ABD-4d9d-80C7-02AF85C822i 536DA01F-2ABD-5d9d-90CF-02AF85C833f Submit



RETURN CODES FOR CASS CERTIFICATION

Code	Description
Blank	The address has been successfully coded.
1	The address is coded but undeliverable (i.e. on side of street known to contain no houses).
2	The ZIP Code was not found and the city and state cannot be used to determine a geographical area to
	search.
3	Coding would result in changing both ZIP and city. This is illegal for P.O. Box [™] and route type
	addresses.
4	The best match would result in too many suspicious changes.
5	The street was identified as an alias but was out of the range restricted for that alias.
6	No street address was given.
7	There are no street name matches in the given ZIP Code™ or in any geographically-related ZIP code.
8	The street may contain superfluous components which cannot be discarded with confidence
9	The house number could not be matched.
10	The best match was made to a ZIPMOVE record but was not an exact match.
11	A ZIPMOVE match was made but no exact match could be found in the new ZIP.
12	The Early Warning System indicates that an exact match will become available in the next database
	update.
13	There are multiple matches with the same degree of confidence. This may indicate an inconsistency in
	the USPS data.
14	Incorrect suffix, directional, street name, or unit resulted in multiple matches with the same degree of
	confidence.
15	Incorrect ZIP, city, or urbanization resulted in multiple matches with the same degree of confidence.
16	A corrected field was too long to fit into the supplied field.
17	Media Error. The database could not be read because of a hardware or system problem.

FAQ

Q. Why is the building/house number not displaying or hidden?

A. We strive to provide as much of the address allowed to ensure users can enter correct addresses as fast as possible. There are US Postal Service regulations that prevent address mining and providing exact house numbers is a violation of those regulations. Clicking the Lookup button once an address has been entered will validate that the user has entered a valid house number even though AccuMail Verify did not provide the exact house number in the drop down.



For more information on any Datatech SmartSoft product please call us at 888.227.7221.

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Technical Support Toll Free: 800.578.8324 Email: <u>support@smartsoftusa.com</u>

Accounting 800.361.1409 (from the US) or 514.332.0741 800.361.9673 (from Canada)

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