



Portico™ Integration Instructions

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Please note: This is NOT OUR XML product. If you are attempting to do an XML integration, please login to e2Value and click on the XML Integration link located at the top of the page.

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1 Product Description

Please note: This is NOT OUR XML product. If you are attempting to do an XML integration, please login to e2Value and click on the XML Integration link located at the top of the page.

Portico™ provides customers with a seamless login and the ability to quickly integrate with our system without having to develop screens and design their own database for the estimator as they do with XML. Portico™ is a great option when a company wants to provide quick estimator access for their customers with no hassles.

Portico™ is capable of receiving known property data (i.e. address, square footage, year built) and returning it to the customer's system, but this is not a requirement in order to use the product. We store everything so there is no demand placed on the customer's network and resources other than the initial integration which typically takes 1-2 days.

2 Product Requirements

Portico™, as with all e2Value® applications, requires Internet Explorer 5.0 or higher. Please make sure you communicate this to your clients.

3 Portico™ Integration Types

Be sure you find out which Portico product your company purchased prior to integration.

3.1 *Basic*

The Basic Portico™ option allows users to seamlessly log into e2Value® via their website by clicking on a link. This typically takes place through the agents-only area on the carrier/vendor website. The carrier/vendor internal staff will usually access via the company Intranet. This option eliminates the need for the end user to enter one username and password for their site and a separate one for the e2Value® site. The end user only needs to enter their existing username and password that was provided to them (from the carrier) to enter the agent-only area or the company Intranet. Then when the user clicks on the estimator that they wish to use, the system sends e2Value® the company's username and password and a unique identifier (virtual name) for the user accessing the site. This option is available for all programs that we offer. Minimal programming is typically required of a company's IT staff.

- The company sets up 1 link per estimator.
- Setup is typically 1 day.
- All Estimators, including Pronto™, are available for this option.

3.2 *Advanced*

The Advanced Portico™ option allows customers to integrate portions of their proprietary rating, quoting or policy issuing systems with the e2Value® system by sending URL parameters for additional data fields along with the link to the estimator. This option eliminates the need for duplicate entry of the name, address, city, zip code, year built, sq. ft., etc. Additionally a customer can provide us a return path so that output data can be sent back to the company once the estimate has been completed.

Once the basic information is entered in the customer's system, they could click a button that typically reads "Valuation". They are then seamlessly logged into the e2Value® estimator where they could enter the remaining information. Once they've completely filled out the property information and they click the "Calculate" button, the replacement cost is displayed. They will also see a button that reads "return to XXXX" (the name of their program). This will transfer the replacement cost back to their system via URL parameters.

- The company sets up 1 link per estimator. The documentation provides a link specific to each estimator (BPR, BPA, EXR, etc.). The customer's developer must then create a menu of our estimators on their end.
- Setup is typically 2 days.
- This option is available for all Residential and Manufactured Home estimators, including Pronto™.
- The customer can choose what data they want returned from our system.
- If a customer wants additional data that we do not currently provide, we typically charge for any development time necessary to include these additional fields.
- As with all our estimators, we store all of the data in the SDW even though we return it to their system.

4 Definitions

4.1 *Integration Definitions*

Username: YOUR_USERNAME – provided to you by e2Value.

Password: YOUR_PASSWORD – provided to you by e2Value.

Virtual User Name: This is the unique identifier that you give your users. This may be the username that they logged into your site with or an agency code, a company name, etc.

4.2 *Estimator Definitions*

Pronto™ Residential: Pronto™ is a virtual inspection system that combines our Residential estimator with 3rd party property data along with Geo-Imagery sources to produce an instant inspection from just an address.

ProntoLite™ Residential: Pronto™ is a virtual inspection system that combines our Residential estimator with Geo-Imagery sources to produce an instant inspection from just an address and 3 basic questions about the property.

Residential: The Residential estimator is our coverage quoting estimator for residential homes. This estimator is the estimator most typically used for integration into agency sites.

Exterior Residential: The Exterior Residential estimator is known as either an Exterior or “Drive-by” inspection estimator. It includes the same information as the Residential plus additional information that could be acquired by visiting the home.

Full Residential: The Full Residential estimator is known as an Interior and Exterior inspection. This is a very comprehensive estimator detailing all interior and exterior features and typically only used by inspection professionals.

A&A: The A&A (Additions & Alterations) estimator is used only for Condos and Co-ops. This estimator is typically used by agents in major metropolitan areas for the purposes of quoting coverage.

Full A&A: Full A&A (Additions & Alterations) estimator is used only for Condos and Co-ops. This is a very comprehensive estimator that details all interior features and is typically only used by inspection professionals.

Additional Structures: The Additional Structures estimator is used for quoting coverage of detached structures such as swimming pools, garages and tennis courts. All other estimators have additional structures quoting capabilities. This is to be used only when a customer wants to determine the value of just the additional structure.

Pronto™ Commercial: Pronto™ is a virtual inspection system that combines our commercial estimator with 3rd party property data along with Geo-Imagery sources to produce an instant inspection from just an address.

ProntoLite™ Commercial: Pronto™ is a virtual inspection system that combines our commercial estimator with Geo-Imagery sources to produce an instant inspection from just an address and 2 basic questions about the property.

Quick Commercial Estimator (QCE): The Quick Commercial Estimator is our commercial structure quoting system. This estimator is typically used by agents and underwriters to determine coverage.

QCE Pro Estimator: The QCE Pro Estimator is our commercial structure quoting system. This estimator is typically used by inspectors to determine coverage.

Farm and Ranch Estimator: The Farm and Ranch Estimator is our agricultural structure estimating system. This estimator is typically used by agents and underwriters to determine coverage.

Homestead Estimator: The Homestead Estimator combines our Farm and Ranch Estimator and our Residential estimator so that customers can determine coverage quotes for family farms or farms with residential structures. This estimator is typically used by agents and underwriters.

InQuest: The InQuest product is for customers who want 3rd party public data but without the EVS valuator or Geo-Imagery. InQuest allows a customer to choose 1-3 data providers and get the public data in a side by side format.

InVision: The InVision product is for customers who want the Geo-Imagery but without the EVS estimator or 3rd party data. InVision provides the Geo-Imagery section and Riskmeter section, if they want it, so that customers can get a visual inspection without having to pay for the estimator or 3rd party data.

AV3: AV3 is an Automated Valuation Model (AVM) that calculates the three standard approaches to valuation automatically and includes them in a single report. AV3 is a USPAP compliant product that follows the FDIC guidelines for AVM's for use in monitoring Collateral Values and for Home Equity Lines of Credit (HELOC). AV3 May not be used for origination.

5 User Setup

1. User hierarchies are based on the IDs that we provide the customer. We typically provide an internal and external ID. The internal has rights over the external one. If a client has more robust needs we can work with them to create more IDs, but the premise will be the same.
2. Carrier
 - a. Internal User – Typically underwriters, but may also be claims and inspection staff. The virtual user identifies specific individuals once they log into the system.
 - b. External User – Typically agents, but may also be outside claims adjusters and inspection companies. The virtual user identifies specific individuals once they log into the system.
3. Portal/Inspection Vendor
 - a. Company's Users
 - i. Internal – Typically customer support, internal staff or inspection staff.
 - ii. External – Inspectors and, in some cases, other carriers if the client is an insurance portal.
 - b. Client's Users
 - i. Internal – We can provide access to their portal clients so that they have rights over their agents. Just like the carriers setup above, a client can associate user IDs with our passwords to give access to a specific company's underwriters and allow privileges over their agents.
 - ii. External – As with the internal, we can provide IDs that the portal or company assigns to their customers within their database to allow access by their client's agents.

6 Estimator Links.

Make sure you find out which e2Value estimators your company purchased prior to integration.

6.1 Residential

Residential Estimates: <https://evs.e2value.com/evs/est/bpr/default.asp>
Residential Pro Estimates: <https://evs.e2value.com/evs/est/bpp/default.asp>
A&A Estimates: <https://evs.e2value.com/evs/est/bpa/default.asp>
A&A Pro Estimates: <https://evs.e2value.com/evs/est/bap/default.asp>
Exterior Estimates: <https://evs.e2value.com/evs/est/exr/default.asp>
Full Residential Estimates: <https://evs.e2value.com/evs/est/flr/default.asp>
Full A&A Estimates: <https://evs.e2value.com/evs/est/fla/default.asp>
Additional Structures Estimates: <https://evs.e2value.com/evs/est/ada/default.asp>

6.2 Commercial

Quick Commercial Structures Estimates: <https://evs.e2value.com/evs/est/qce/default.asp>
QCE Pro Structures Estimates: <https://evs.e2value.com/evs/est/cmm/default.asp>

6.3 Farm and Ranch

Farm and Ranch Structures Estimates: <https://evs.e2value.com/evs/est/fnr/default.asp>
Homestead Structures Estimates: <https://evs.e2value.com/evs/est/hsd/default.asp>

6.4 Pronto TM

Pronto Residential: https://evs.e2value.com/evs/est/pronto_res_ln/default.aspx
ProntoLite TM Residential: https://evs.e2value.com/evs/est/pronto_res/default.aspx
Pronto Commercial: https://evs.e2value.com/evs/est/pronto_cmm/default.aspx
ProntoLite TM Commercial: https://evs.e2value.com/evs/est/pronto_cmm_3/default.aspx

6.5 InVision

InVision Estimates: <https://evs.e2value.com/evs/est/invision/default.aspx>

6.6 InQuest

InQuest Estimates: <https://evs.e2value.com/evs/est/inquest/default.aspx>

6.7 AV3

Residential Banking: <https://evs.e2value.com/evs/est/av3/default.aspx>

6.8 Smart Data Warehouse/Retrieving Past Estimates

The Smart Data Warehouse is where all saved estimates are stored. There is no archiving so all work is live and can be rerun through the estimator at any time.

To directly access the Smart Data Warehouse: <https://evs.e2value.com/evs/sdw.asp>

7 Basic Portico™ Integration

7.1 Authentication

Authentication is achieved by sending your username, password and virtual username to the following URL:

https://evs.e2value.com/evs/remote_auth.asp

In the following format:

https://evs.e2value.com/evs/remote_auth.asp?username=YOUR_USERNAME&password=YOUR_PASSWORD&vusername=YOUR_VIRTUALUSERNAME

The *vusername* parameter allows the “virtual user” access only to his or her own estimates in the Smart Data Warehouse (SDW)™, not access to all properties run by that Portico user. Virtual usernames are not provided by e2Value and instead are freeform data that you choose (e.g. ABCAgency). No setup is required. Once a login occurs with a *vusername* that was not previously in the system, it will automatically become part of the system and will be visible in the SDW.

Note that the value for *vusername* must be URL encoded (to prevent problems if spaces and special characters are used). In general, spaces and special characters should be avoided.

Please post the to URL via a server-side connection, so that your username/password is not available to the end user. Please also ensure that if you have a firewall, outbound connections on Port 80 are allowed.

This page will return an XML formatted response. A successful result looks like:

```
<?xml version="1.0"?>
<response status="success">
  <authid>1663</authid>
  <authcode>kHAnhBdqgF6vgT2EYe16NgEbmKXgUyV59Ivw3C9r1GS81</authcode>
</response>
```

Unsuccessful results look like:

```
<?xml version="1.0"?>
<response status="failure">
  <message>Sorry, your password was incorrect.</message>
</response>
```

Where the “<message>” contains the error.

When the response indicates a success, you must take the <authid> and <authcode> parameters to form your link URL, which will look like this:

<https://evs.e2value.com/evs/est/bpr/default.asp?ac=kHAnhBkdGf6vgT2EYe16NgEbmKXgUyV59Ivw3C9r1GS81&ad=1663> (Residential)

or

<https://evs.e2value.com/evs/est/bpp/default.asp?ac=kHAnhBkdGf6vgT2EYe16NgEbmKXgUyV59Ivw3C9r1GS81&ad=1663> (Residential Pro)

or

<https://evs.e2value.com/evs/est/exr/default.asp?ac=kHAnhBkdgF6vgT2EYe16NgEbmKXgUyV59Ivw3C9r1GS81&ad=1663> (Exterior Residential)

or

<https://evs.e2value.com/evs/est/flr/default.asp?ac=kHAnhBkdgF6vgT2EYe16NgEbmKXgUyV59Ivw3C9r1GS81&ad=1663> (Full Residential)

or

<https://evs.e2value.com/evs/est/ada/default.asp?ac=kHAnhBkdgF6vgT2EYe16NgEbmKXgUyV59Ivw3C9r1GS81&ad=1663> (Additional Structures)

or

<https://evs.e2value.com/evs/est/bpa/default.asp?ac=kHAnhBkdgF6vgT2EYe16NgEbmKXgUyV59Ivw3C9r1GS81&ad=1663> (A&A)

or

<https://evs.e2value.com/evs/est/bap/default.asp?ac=kHAnhBkdgF6vgT2EYe16NgEbmKXgUyV59Ivw3C9r1GS81&ad=1663> (A&A Pro)

or

<https://evs.e2value.com/evs/est/fla/default.asp?ac=kHAnhBkdgF6vgT2EYe16NgEbmKXgUyV59Ivw3C9r1GS81&ad=1663> (Full A&A)

or

<https://evs.e2value.com/evs/est/qce/default.asp?ac=kHAnhBkdgF6vgT2EYe16NgEbmKXgUyV59Ivw3C9r1GS81&ad=1663> (Quick Commercial)

or

<https://evs.e2value.com/evs/est/cmm/default.asp?ac=kHAnhBkdgF6vgT2EYe16NgEbmKXgUyV59Ivw3C9r1GS81&ad=1663> (QCE Pro)

or

<https://evs.e2value.com/evs/est/fnr/default.asp?ac=kHAnhBkdgF6vgT2EYe16NgEbmKXgUyV59Ivw3C9r1GS81&ad=1663> (Farm and Ranch)

or

<https://evs.e2value.com/evs/est/hsd/default.asp?ac=kHAnhBkdgF6vgT2EYe16NgEbmKXgUyV59Ivw3C9r1GS81&ad=1663> (Homestead)

or

https://evs.e2value.com/evs/est/pronto_res_in/default.aspx?ac=kHAnhBkdgF6vgT2EYe16NgEbmKXgUyV59Ivw3C9r1GS81&ad=1663 (Pronto™ Residential)

or

https://evs.e2value.com/evs/est/pronto_res/default.aspx?ac=kHAnhBkdgF6vgT2EYe16NgEbmKXgUyV59lvw3C9r1GS81&ad=1663 (Pronto Lite™ Residential)

or

https://evs.e2value.com/evs/est/pronto_cmm/default.aspx?ac=kHAnhBkdgF6vgT2EYe16NgEbmKXgUyV59lvw3C9r1GS81&ad=1663 (Pronto™ Commercial)

or

https://evs.e2value.com/evs/est/pronto_cmm_3/default.aspx?ac=kHAnhBkdgF6vgT2EYe16NgEbmKXgUyV59lvw3C9r1GS81&ad=1663 (Pronto Lite™ Commercial)

or

<https://evs.e2value.com/evs/est/invision/default.aspx?ac=kHAnhBkdgF6vgT2EYe16NgEbmKXgUyV59lvw3C9r1GS81&ad=1663> (InVision™)

or

<https://evs.e2value.com/evs/est/inquest/default.aspx?ac=kHAnhBkdgF6vgT2EYe16NgEbmKXgUyV59lvw3C9r1GS81&ad=1663> (InQuest™)

or

<https://evs.e2value.com/evs/est/av3/default.aspx?ac=kHAnhBkdgF6vgT2EYe16NgEbmKXgUyV59lvw3C9r1GS81&ad=1663> (AV3 Residential Banking)

Where ac is the <authcode> and ad is the <authid>. **NOTE: You must generate an <authcode> and <authid> for each user you send into the system.** If you reuse the same authcode/authid, user sessions will be overwritten.

7.2 Example – Basic Authentication Routine

The following is sample ASP code that shows how to obtain an <authcode> and <authid> from the server-side:

```
<%  
Dim XMLhttp  
Dim XMLResponse  
Dim oXML  
Dim bResponseOK  
Dim oResponseNode  
Dim strResponse  
Dim authResult  
Dim sErrMsg  
Dim sAuthCode  
Dim sAuthID  
  
sErrMsg = ""
```

```

Set XMLhttp = Server.CreateObject("MSXML2.ServerXMLHTTP")

XMLhttp.Open "GET",
"https://evs.e2value.com/evs/remote_auth.asp?username=YOUR_USERNAME&password=YOUR_PASSWORD&vusername=ABCAgency", False
XMLhttp.send

If XMLhttp.Status = 200 Then
    strResponse = XMLhttp.responseText
    Set oXML = Server.CreateObject("Microsoft.XMLDOM")
    oXML.async = False
    bResponseOK = oXML.loadXML(strResponse)
    If bResponseOK Then
        Set oResponseNode = oXML.selectSingleNode("response")
        authResult = oResponseNode.getAttribute("status")
        If authResult = "success" Then
            sAuthCode = oResponseNode.selectSingleNode("authcode").text
            sAuthID = oResponseNode.selectSingleNode("authid").text
        Else
            sErrMsg = oResponseNode.selectSingleNode("message").text
        End If
    Else
        sErrMsg = "Error: Bad response format."
    End If
    Set oXML = Nothing
Else
    sErrMsg = "Error: Connection timeout."
End If
Set XMLhttp = nothing

If sErrMsg = "" Then
    Response.write "AuthCode = " & sAuthCode
    Response.write "<br>"
    Response.write "AuthID = " & sAuthID
Else
    Response.write sErrMsg
End If
%>

```

This yields:

```

AuthCode = kHAnhBkqgF6vgT2EYe16NgEbmKXgUyV59Ivw3C9r1GS81
AuthID = 1663

```

Which is used to form this link:

<https://evs.e2value.com/evs/est/bpr/default.asp?ac=kHAnhBkqgF6vgT2EYe16NgEbmKXgUyV59Ivw3C9r1GS81&ad=1663>

7.3 Quickstart Example - Full Working Example ASP Page and Code

Save the following code to an .asp file, change the username and password constants and direct your users to it. No additional work is required, but the HTML output can be custom-tailored to your needs.

```
<%@ Language=VBScript %>
<%
Dim e2Value_Link_URL, e2Value_sAuthCode, e2Value_sAuthID, e2Value_sErrMsg,
sVirtualUsername

Const e2Value_Username = "yourusername"
Const e2Value_Password = "yourpassword"

sVirtualUsername = Request("yourvirtualusername")

Call authLinkTo()

If e2Value_sErrMsg <> "" Then
    e2Value_Link_URL = "javascript:void(0)" onclick="alert('Temporarily unavailable.
Please try refreshing this page. If problem continues, contact technical support.')"
Else
    e2Value_Link_URL = "https://evs.e2value.com/evs/appselect.asp?ac=" &
e2Value_sAuthCode & "&ad=" & e2Value_sAuthID & "" target=""e2valuwindow""
End If

Sub authLinkTo()
    Dim XMLhttp, XMLResponse, oXML, bResponseOK, oResponseNode, strResponse
    Dim authResult
    e2Value_sErrMsg = ""
    Set XMLhttp = Server.CreateObject("MSXML2.ServerXMLHTTP")
    XMLhttp.Open "GET", "https://evs.e2value.com/evs/remote_auth.asp?username=" &
e2Value_Username & "&password=" & e2Value_Password & "&vusername=" &
Server.URLEncode(sVirtualUsername), False
    XMLhttp.send
    If XMLhttp.Status = 200 Then
        strResponse = XMLhttp.responseText
        Set oXML = Server.CreateObject("Microsoft.XMLDOM")
        oXML.async = False
        bResponseOK = oXML.loadXML(strResponse)
        If bResponseOK Then
            Set oResponseNode = oXML.selectSingleNode("response")
            authResult = oResponseNode.getAttribute("status")
            If authResult = "success" Then
                e2Value_sAuthCode =
oResponseNode.selectSingleNode("authcode").text
                e2Value_sAuthID =
oResponseNode.selectSingleNode("authid").text
            Else
                e2Value_sErrMsg =
oResponseNode.selectSingleNode("message").text
            End If
        Else
            e2Value_sErrMsg = "Error: Bad response format."
        End If
        Set oXML = Nothing
    Else
        e2Value_sErrMsg = "Error: Connection timeout."
    End Sub
```



```

                </b></font>
            </center></div>
        </td>

    </tr>
</table>
&nbsp;
<div align=center><center>
<table border="0" width="650" cellspacing="0" cellpadding="0">
    <tr>
        <td width="100%" bgcolor="#888888"></td>
    </tr>
    <tr>
        <td width="100%">&nbsp; </td>
    </tr>
</table>
</center></div>
</center></div>
</body>
</html>

```

The **sVirtualUsername** parameter should come from a form, querystring, or any other source from which the user entered their own virtual username.

If implementing this feature for Farm and Ranch and/or Homestead users, replace **appselect.asp** with **fnrselect.asp** and save the file as a new asp page.

If implementing this feature for users of the Quick Commercial estimator, replace **appselect.asp** with **cmmselect.asp** and save the file as a new asp page.

7.4 After Authenticating – Special Note on JavaScript Popup Windows

If you've designed your system to link to the e2Value forms via a popup window, the following may be helpful.

Some users have difficulty launching popup windows with the latest versions of Internet Explorer (which include a built-in popup-blocker) and / or third-party popup-blocking software. Consider the following example code to encapsulate your window opening statements:

```

<script language="JavaScript">
<!--
    function openWindow(url) {
        var newwin =
window.open(url,'popupwindow1','scrollbars=yes,resizable=yes,width=650,scrollbars=no,height=4
50,location=yes,toolbar=no,status=no,directories=no,menubar=no');

        if (newwin == null) {
            alert("\nYour web browser just prevented a pop-up window from opening. Try holding
            down the 'Ctrl' key and clicking the button or link you just clicked.\n\nIf you are interested
            in configuring your popup blocker to avoid this message next time, please visit
            http://www.e2value.com/popupblocker/.");
        }
    }

```

```
    } else {  
        newwin.focus();  
    }  
}  
//-->  
</script>
```


7.5 Special Note for Farm and Ranch, Homestead and Quick Commercial Users - Popup Itemizer Window

If you choose to itemize the Equipment/Contents of a structure, a pop up “Itemizer” window is opened. The itemized list is customized based on the structure type that has been selected. It allows the user to select the Items List and then an Item from within the list.

For instance, for “Barn, Bank”, the user can select one of three lists – Cattle Equipment, Hog Equipment or Sheep Equipment. If Cattle Equipment is selected, the user is presented a second list consisting of items such as “6” concrete flatwork”, “crossing guard” and “hay shelter”.

For each item picked from this second list, the user can override the default Unit Price that is presented and also enter a Quantity of that item.

Some users have difficulty launching popup windows with the latest versions of Internet Explorer (which include a built-in popup-blocker) and / or third-party popup-blocking software. You will usually be able to get around this problem by holding down the ctrl button while you try again.

More than one user can be logged into the system using the same username at the same time. The popup Itemizer has been designed to properly handle the Itemizer inputs in such cases.

8 PHP Instructions:

8.1 *Example - Basic Authentication Routine*

```
$out = "GET
/evs/remote_auth.asp?username=YOUR_USERNAME&password=YOUR_PASSWORD&vusern
ame=VIRTUAL_USERNAME HTTP/1.0\r\n\r\n";
```

Passing the "vusername" parameter logs the user in under that virtual username.

8.2 *Quickstart Example - Full Working Example ASP Page and Code*

Save the following code to a .php file, change the username and password constants and direct your users to it. No additional work is required, but the HTML output can be custom-tailored to your needs.

```
<?php
$e2Value_Username = "yourusername";
$e2Value_Password = "yourpassword";
$VirtualUsername = "yourvirtualusername";
$e2Value_Link_URL = "";
$authcode = "";
$authid = "";
$err = "";
$in = "";

$fp = fsockopen("evs.e2value.com", 80, $errno, $errstr, 30);
// As of PHP 4.3.0, if you have compiled in OpenSSL support, you
// should prefix the hostname with 'ssl://' and use port 443 instead of
// 80 (the second argument) to use an SSL connection over TCP/IP
// to connect to the remote host:
// $fp = fsockopen("ssl://evs.e2value.com", 443, $errno, $errstr, 30);

if (!$fp) {
    $err = "Error: Connection timeout.";
} else {
    $out = "GET /evs/remote_auth.asp?username=" . $e2Value_Username . "&password=" .
    $e2Value_Password . "&vusername=" . $VirtualUsername . " HTTP/1.0\r\n\r\n";

    fwrite($fp, $out);
    $body = false;
    while (!feof($fp)) {
        $s = fgets($fp, 1024);
        if ($body)
            $in .= $s;
        if ($s == "\r\n")
            $body = true;
    }
    if(strpos($in,"success")!=false){
```

```

    $authcode = substr($in,strpos($in,"<authcode>")+strlen("<authcode>"),
    strpos($in,"</authcode>")-strlen("<authcode>")-strpos($in,"<authcode>"));
    $authid = substr($in,strpos($in,"<authid>")+strlen("<authid>"), strpos($in,"</authid>")-
    strlen("<authid>")-strpos($in,"<authid>"));
    } else {
        $err = substr($in,strpos($in,"<message>")+strlen("<message>"), strpos($in,"</message>")-
    strlen("<message>")-strpos($in,"<message>"));
    }
}
}
fclose($fp);

if ($err == "") {
    $e2Value_Link_URL = "https://evs.e2value.com/evs/appselect.asp?ac=" . $authcode . "&ad="
    . $authid . "\" target=\"e2valuwindow";
} else {
    $e2Value_Link_URL = "javascript:void(0)\\" onclick=\"alert('Temporarily unavailable. Please
    try refreshing this page. If problem continues, contact technical support.')";
}

?>
<html>
<head>
    <title>e2Value Link-To</title>
</head>
<body bgcolor="#FFFFFF" link="#0000FF" vlink="#0000FF" alink="#0000FF">
<div align="center"><center>
<table border="0" width="650" cellpadding="0" cellspacing="0">
    <tr>
        <td height="36" nowrap width="162"></td>
        <td height="36" nowrap width="488" valign="bottom"><b><font face="Verdana"
    size="2">Expert Valuation System</font></b></td>
    </tr>
    <tr>
        <td height="4" nowrap width="162"></td>
        <td height="4" nowrap width="488" bgcolor="#333333"></td>
    </tr>
    <tr>
        <td height="3" nowrap width="162"></td>
        <td height="3" nowrap width="488"></td>
    </tr>
    <tr>
        <td height="24" nowrap width="162"></td>
        <td height="24" bgcolor="#990000" nowrap width="488"><p
    align="center"><small><strong><small>&nbsp;</font></small></strong></small></td>
    </tr>
    <tr>
        <td colspan="2" height="5"></td>
    </tr>
</table>
</div>

```

```

        <td colspan="2" width="100%" height="1" bgcolor="#808080"></td>
    </tr>
</table>
<table border="0" cellpadding="0" height="278" cellspacing="0" width="650" bgcolor="#ffeebb">
    <tr>
        <td height="278"></td>
        <td valign="top">
            <table border="0" cellpadding="0" height="278" cellspacing="0">
                <tr>
                    <td>
                        <div align="center"><center><font face="Arial" size="3"
color="#880000"><b>Click <a href="<?php print($e2Value_Link_URL); ?>">here</a> to enter
the<font size="5"><br>e2Value Resource Center</font>
                        </b></font>
                        </center></div>
                    </td>
                </tr>
            </table>
        </td>
    </tr>
</table>
<div align="center"><center>
    <table border="0" width="650" cellspacing="0" cellpadding="0">
        <tr>
            <td width="100%" bgcolor="#888888"></td>
        </tr>
        <tr>
            <td width="100%">&nbsp;</td>
        </tr>
    </table>
</center></div>
</center></div>
</body>
</html>

```

The **\$VirtualUsername** parameter should come from a form, querystring, or any other source from which the user entered their own virtual username.

If implementing this feature for Farm and Ranch and/or Homestead users, replace **appselect.asp** with **fnrselect.asp** and save the file as a new asp page.

If implementing this feature for users of the Quick Commercial estimator, replace **appselect.asp** with **cmmselect.asp** and save the file as a new asp page.

9 Advanced Portico™ Integration

When forming your link URL, you may supply additional parameters to your URL. Doing so allows the “client info” and “policy info” section to be pre-populated.

The list of parameters is as follow:

Estimator Types:

BPR – Residential
 BPP – Residential Pro
 EXR – Exterior Residential
 FLR – Full Residential
 BPA – A & A
 BAP – A & A Pro
 ADA – Additional Structures
 QCE – Quick Commercial
 CMM – QCE Pro
 P1C – Pronto Commercial
 P3C – Pronto Lite Commercial (3 Question)
 P1R – Pronto Residential
 P3R – Pronto Lite Residential (3 Question)
 FNR – Farm and Ranch
 HSD – Homestead
 INV – InVision
 INQ – InQuest
 AV3 - Residential Banking

9.1 CA DOI Regulation 2010.00001 Compliance

California Department of Insurance regulation, REG-2010-00001: Standards and Training for Estimating Replacement Value on Homeowners' Insurance went into effect 6/27/2011. In order for your integration to comply with the new regulation you must include the following fields in the data return:

- ArchitectFeesAndPermits
- HouseMaterialsAndLabor
- Overhead
- Profit
- ReplacementCostWithoutDebrisRemoval

These fields and their descriptions are listed on page 27.

9.2 Data Parameters

Note: All parameter values should be url-encoded.

***Not supported by P1R, P3R, P1C, P3C INV and INQ. **Not supported by INQ**

Parameter Name	Est. Type	Required	Max length	Description	Requirements
preload	ALL	Y	1	Value must be 1	Value must be 1
clientisbusiness	ALL	N	1	Value must be 1 or 0, default is 1	If value is 1 then the business entity name will be the value specified in cln1
cln1	ALL	N	100	Client First Name	

cmi1	ALL	N	1	Client Middle Initial	
cln1	ALL	N	100	Client Last Name	
cfn2	BPR	N	100	Client First Name 2	
cmi2	BPR	N	1	Client Middle Initial 2	
cln2	BPR	N	100	Client Last Name 2	
ccova	ALL **, †	N	30	Coverage	Must be numeric
ccovao	ALL **, †	N	70	Origin of Coverage A	Must be one of the following (Previous Coverage, Agent's Estimate, Builder's Estimate, Claims Estimate, Insured's Estimate, Market Value, Purchase Price, Unknown)
paddr1	ALL	N	150	Client Address 1	
paddr2	ALL	N	150	Client Address 2	
pcity	ALL	N	100	Client City	
pstate	ALL	N	2	Client State	
pzip	ALL	N	5	Client Zip	
pi_number	ALL **, †	N	100	Policy Number	
pi_carrier	ALL **, †	N	100	Carrier	
pi_agent	ALL **, †	N	100	Agent	
pi_requestor	ALL *, †	N	100	Requestor	
pi_interviewed	ALL *, †	N	100	Person Interviewed	
pi_inspdate	ALL *, †	N	50	Inspection Date	Must be valid date
pi_inspby	ALL *, †	N	100	Inspected By	
pi_effdate	ALL **, †	N	50	Effective Date	Must be valid date
pi_agencycode	ALL **, †	N	100	Agency Code	
pi_agencyName	ALL **, †	N	100	Agency Name	
pi_add1	ALL **, †	N	100	Agency Address 1	
pi_add2	ALL **, †	N	100	Agency Address 2	
pi_city	ALL **, †	N	100	Agency City	
pi_state	ALL **, †	N	2	Agency State	
pi_zip	ALL **, †	N	5	Agency Zip	
pi_phone	ALL **, †	N	10	Agency Phone	
id	ALL	N	100	An unique ID provided by the partner to identify the submitted order. If this field is provided during the initial request, a fieldname called "return_id" will be appended to the return URL along with its unique ID which was provide by the partner.	
u	ALL	N	7000	A return URL provided by the partner. If this field is provided during the initial request, there will be a link created at the final calculation page with the URL provided by the partner.	If no custom fieldnames were used in the return URL, partner should append a character "?" to the end of the URL. (e.g. http://www.returnhere.com/index.asp)

					?)
postback_rt_aut opostbackurl	BPR EXR	N	5000	A return URL provided by the partner. If this field is provided during the initial request, system will automatically call the provided URL behind the scene.	If no custom fieldnames were used in the return URL, partner should append a character "?" to the end of the URL. (e.g. http://www.returnhere.com/index.asp?)
bname	ALL, †	N	50	This is the text of the return URL link that will be display on the final calculation page. If this is not provided during the initial request, a default name will be used.	
propid	ALL	N	10	PropertyID. If the PropertyID is specified, the user will immediately be taken to the estimator for editing the corresponding property.	The PropertyID value is generated by e2Value and may be returned to the user using the 'rt_propid' value below. If the id entered cannot be found the parameter will be ignored.
yrblt	BPR BPP BPA BAP FLR EXR QCE CMM HSD P3R	N	4	Year Built	Value must be a valid year.
consttype	BPR BPP BPA BAP FLR EXR QCE CMM HSD P3R	N	100	Construction Type	Value must be a valid construction type from those selectable in the e2Value EVS estimator.
sqft	BPR BPP BPA BAP FLR EXR QCE CMM	N	10	Square Feet	Must be a valid numeric value.

	HSD P3R				
rooftype	BPR BPP FLR EXR HSD P3R	N	100	Roof Type	Value must be a valid roof type from those selectable in the e2Value EVS estimator.
roofcov	QCE CMM	N	100	Roof Covering	Value must be a valid roof covering from those selectable in the e2Value EVS estimator.
structtype	QCE CMM	N	100	Structure Type	Value must be a valid structure type from those selectable in the e2Value EVS estimator.
numfloors	QCE CMM	N	4	Number Of Floors	Value must be a valid integer.
ovrlcondition	QCE CMM	N	100	Overall Condition	Value must be a valid overall condition from those selectable in the e2Value EVS estimator.
extwall	QCE CMM	N	100	Exterior Wall	Value must be a valid exterior wall from those selectable in the e2Value EVS estimator.
locale	BPR	N	100	Locale	Values must be valid e2Value locales. Multiple locales can be specify by using as a separator. e.g. beachfront suburban rural
archstyle	BPR P3R	N	100	Architectural Style	Value must be a valid architectural style from those selectable in the e2Value EVS estimator.
constquality	BPR P3R	N	100	Construction Quality	Value must be a valid construction quality from those selectable in the e2Value EVS

					estimator.
shape	BPR P3R	N	100	Physical Shape	Value must be a valid physical shape from those selectable in the e2Value EVS estimator.
exterior1	BPR P3R	N	100	Primary Exterior	Value must be a valid primary exterior from those selectable in the e2Value EVS estimator.
rt_propid	ALL	N	1	Returns the unique Property ID of this property in the return URL specified by the user. Value will be returned as <i>rt_propid=<property id></i> where <i><property id></i> is the actual unique Property ID value of this property.	The PropertyID value is generated by e2Value. See 'propid' parameter above for further description. Value must be 1 or 0, default is 1
rt_yrbld	BPR BPP BPA BAP FLR EXR P1R P3R P1C P3C QCE CMM FNR HSD	N	1	Returns the Year Built in the return URL specified by the user. Value will be returned as <i>rt_yrbld=<year></i> where <i><year></i> is the actual Year Built value of this property. In QCE, CMM, FNR, and HSD, returns the year built of each structure in the property separated by a "[" character in the return URL specified by the user. Value will be returned as <i>rt_yrbld=<yrbld1 yrbld2 yrbld3/etc...></i>	Value must be 1 or 0, default is 1
rt_consttype	BPR BPP BPA BAP FLR EXR P1R P3R P1C P3C QCE CMM FNR HSD	N	1	Returns the Construction Type in the return URL specified by the user. Value will be returned as <i>rt_consttype=<construction type></i> where <i><construction type></i> is the actual Construction Type value of this property. In QCE, CMM, FNR, and HSD, returns the construction type of each structure in the property separated by a "[" character in the return URL specified by the user. Value will be returned as <i>rt_consttype=<consttype1 consttype2 consttype3/etc...></i>	Value must be 1 or 0, default is 1
rt_sqft	BPR BPP BPA BAP FLR EXR	N	1	Returns the Square Feet in the return URL specified by the user. Value will be returned as <i>rt_sqft=<square feet></i> where <i><square feet></i> is the actual Square Feet value of this	Value must be 1 or 0, default is 1

	P1R P3R P1C P3C QCE CMM FNR HSD			property. In QCE, CMM, FNR, and HSD, returns the square feet of each structure in the property separated by a “ ” character in the return URL specified by the user. Value will be returned as <i>rt_sqft=<sqft1/sqft2/sqft3/etc...></i>	
rt_rooftype	BPR BPP FLR EXR P1R P3R P1C P3C	N	1	Returns the Roof Type in the return URL specified by the user. Value will be returned as <i>rt_rooftype=<roof type></i> where <i><roof type></i> is the actual Roof Type value of this property.	Value must be 1 or 0, default is 1
rt_numStories	P1R P3R P1C	N	1	Returns the number of stories in the return URL specified by the user. Value will be returned as <i>rt_numStories=<number of stores></i>	Value must be 1 or 0, default is 1
rt_structtype	QCE CMM FNR HSD	N	1	Returns the structure type of each structure in the property separated by a “ ” character in the return URL specified by the user. Value will be returned as <i>rt_structtype=<structtype1/structype2/structtype3/etc...></i>	Value must be 1 or 0, default is 1
rt_roofcov	QCE CMM FNR HSD	N	1	Returns the roof covering of each structure in the property separated by a “ ” character in the return URL specified by the user. Value will be returned as <i>rt_roofcov=<roofcov1/roofcov2/ro ofcov3/etc...></i>	Value must be 1 or 0, default is 1
rt_numfloors	QCE CMM FNR HSD	N	1	Returns the number of floors of each structure in the property separated by a “ ” character in the return URL specified by the user. Value will be returned as <i>rt_numfloors=<numfloors1/numflo ors2/numfloors3/etc...></i>	Value must be 1 or 0, default is 1
rt_ovrlcondition	QCE CMM FNR HSD	N	1	Returns the overall condition of each structure in the property separated by a “ ” character in the return URL specified by the user. Value will be returned as <i>rt_ovrlcondition=<ovrlcondition1/o vrlcondition2/ovrlcondition3/etc...></i>	Value must be 1 or 0, default is 1
rt_extwall	QCE CMM FNR	N	1	Returns the exterior wall type of each structure in the property separated by a “ ” character in the	Value must be 1 or 0, default is 1

	HSD			return URL specified by the user. Value will be returned as <i>rt_extwall=<extwall1 extwall2 extwall3/etc...></i>	
rt_locale	BPR	N	1	Specify if you want locales to be returned.	Value must be 1 or 0, default is 0
rt_archstyle	BPR P3R	N	1	Specify if you want architectural style to be returned.	Value must be 1 or 0, default is 0
rt_constquality	BPR P3R	N	1	Specify if you want construction quality to be returned.	Value must be 1 or 0, default is 0
rt_shape	BPR P3R	N	1	Specify if you want physical shape to be returned.	Value must be 1 or 0, default is 0
rt_exterior1	BPR P3R	N	1	Specify if you want primary exterior to be returned.	Value must be 1 or 0, default is 0
nopopup	ALL	N	1	If the <i>nopopup</i> parameter is specified and set to 1, the return URL will open in the same browser window as the estimate rather than in a popup window which is the default behavior.	Value must be 1 or 0, default is 0.
goToSDW	ALL	N	1	If the <i>goToSDW</i> parameter is specified and set to 1, the system will bypass the estimator and any other specified CML parameters and take the user directly to the Smart Data Warehouse. If the <i>u</i> parameter was also specified, then a return button will appear in the SDW pointing back to the URL that the user specified. The <i>bname</i> and <i>nopopup</i> parameters can also be used in this case to control the settings of the return button.	Value must be 1 or 0, default is 0.
rt_rpctype	BPR BPP BPA BAP FLR EXR BPA P1R P3R P1C P3C QCE CMM FNR HSD	N	1	Returns the Replacement Cost Type in the return URL specified by the user. Value will be returned as <i>rt_rpctype=<replacement cost type></i> where <i><replacement cost type></i> is the actual Replacement Cost Type value of this property. Possible return values for the Replacement Cost Type are “full”, “func” (for “functional”), or an empty value if none exists for this property.	Value must be 1 or 0, default is 0.

rt_areas	P1R P3R	N	1	<p>Returns the additional areas in the return URL specified by user. Value will be returned as rt_areas=<areas>. For <areas>, Columns are separated by and rows are separated by a line break.</p> <p>For example: garage, attached 1997 500 1/2 Story 1997 600</p> <p>Note: Column 1 = area name Column 2 = year built Column 3 = sqft</p>	Value must be 1 or 0, default is 0.
----------	------------	---	---	---	-------------------------------------

Examples:

https://evs.e2value.com/evs/est/bpr/default.asp?ac=hE5ke7hnCC0RdQyBVAXzkdB6jhUCRvSZ3fstY92oxDP2X&ad=406767&preload=1&cfn1=test&cmi1=t&cln1=riskmetertest&cfn2=test2&cmi2=2&cln2=riskmetertest2&ccova=%24750%2C0000%2E00&ccovao=Previous+Coverage&paddr1=123+test&paddr2=apt+%23+2&pcity=bay+shore&pstate=ny&pzip=11706&pi_carrier=carrier&pi_number=12345678&pi_requestor=requestor&pi_interviewed=interviewed&pi_effdate=8%2F1%2F2006&pi_inspdate=8%2F10%2F2006&pi_inspby=inspectby&pi_agencyName=agency+name&pi_add1=add1&pi_add2=add2&pi_city=bay+shore&pi_state=ny&pi_zip=11706&pi_phone=1111111111&pi_agencycode=1234567&pi_agent=agent&id=12345&u=http%3A%2F%2Fwww%2Ee2value%2Ecom%2Flinkto%2Fcml%2Findex%2Easp%3F&bname=Return+to+System (Residential)

or

https://evs.e2value.com/evs/est/qce/default.asp?ac=3zs9Yt3CXxPHXgNwlvnp9XwS73kxhKiprZHlourDMYfQn&ad=406764&preload=1&cfn1=test&cmi1=t&cln1=riskmetertest&cfn2=test2&cmi2=2&cln2=riskmetertest2&ccova=%24750%2C0000%2E00&ccovao=Previous+Coverage&paddr1=123+test&paddr2=apt+%23+2&pcity=bay+shore&pstate=ny&pzip=11706&pi_carrier=carrier&pi_number=12345678&pi_requestor=requestor&pi_interviewed=interviewed&pi_effdate=8%2F1%2F2006&pi_inspdate=8%2F10%2F2006&pi_inspby=inspectby&pi_agencyName=agency+name&pi_add1=add1&pi_add2=add2&pi_city=bay+shore&pi_state=ny&pi_zip=11706&pi_phone=1111111111&pi_agencycode=1234567&pi_agent=agent&id=12345&u=http%3A%2F%2Fwww%2Ee2value%2Ecom%2Flinkto%2Fcml%2Findex%2Easp%3F&bname=Return+to+System (Quick Commercial)

or

https://evs.e2value.com/evs/est/cmm/default.asp?ac=72uB1v7EzzRjZiPyMxOrBZyUA7mzMkrtJKqWsfO0hsp&ad=406766&preload=1&cfn1=test&cmi1=t&cln1=cmlcmmtest&cfn2=test2&cmi2=2&cln2=cmlcmmtest2&ccova=%24750%2C0000%2E00&ccovao=Previous+Coverage&paddr1=123+test&paddr2=apt+%23+2&pcity=bay+shore&pstate=ny&pzip=11706&pi_carrier=carrier&pi_number=12345678&pi_requestor=requestor&pi_interviewed=interviewed&pi_effdate=8%2F1%2F2006&pi_inspdate=8%2F10%2F2006&pi_inspby=inspectby&pi_agencyName=agency+name&pi_add1=add1&pi_add2=add2&pi_city=bay+shore&pi_state=ny&pi_zip=11706&pi_phone=1111111111&pi_agencycode=1234567&pi_agent=agent&id=12345&u=http%3A%2F%2Fwww%2Ee2value%2Ecom%2Flinkto%2Fcml%2Findex%2Easp%3F&clientisbusiness=1&bname=Return+to+System

(QCE Pro)

If a return URL was provided by the partner using the 'u' parameter during the initial request, there will be a link created at the final calculation page with the URL provided by the partner. Several return parameters will be appended to this URL and are listed as follows:

Parameter Name	Est. Type	Description
return_ad	ALL†	Returns the authid value used during the initial request.
return_rpc**	ALL†	Returns the calculated replacement cost value.
FinalRCVInclusiveOfDebrisRemoval**	ALL†	Returns "Final RCV Inclusive of Debris Removal" if property is located in California.
DebrisRemoval**	ALL†	Returns "Debris Removal" if property is located in California.
ArchitectFeesAndPermits**	ALL†	Returns "Architect's Fees and Permits" if property is located in California.
HouseMaterialsAndLabor*	ALL†	Returns "House Materials and Labor" if property is located in California.
Overhead**	ALL†	Returns "Overhead" if property is located in California.
Profit**	ALL†	Returns "Profit" if property is located in California.
ReplacementCostWithoutDebrisRemoval**	ALL†	Returns "Replacement Cost WITHOUT Debris Removal" if property is located in California.
return_structuresrpc**	BPR BPP FLR QCE CMM FNR HSD	Returns the calculated replacement cost value of other structures. For QCE, CMM, FNR, and HSD see note below.
return_unique**	BPR BPP FLR	Returns the total value of any unique items entered.
return_ACV**	BPR BPP FLR QCE CMM FNR HSD	Returns the ACV value. For QCE, CMM, FNR, and HSD see note below.
return_id	ALL	Returns the contents of the 'id' parameter if specified by the partner during the initial request.
av3_wv	AV3	AV3 Weighted Value
av3_rt	AV3	Report Type
av3_rd	AV3	Report Date
av3_ed	AV3	Effective Date
av3_tn	AV3	Tracking Number
av3_ln	AV3	Loan Number
av3_pt	AV3	Product Type
av3_bn	AV3	Borrower Name
av3_iusr	AV3	Intended User
av3_iu	AV3	Intended Use
av3_scah	AV3	Sales Comparable Approach (High)
av3_scal	AV3	Sales Comparable Approach (Low)

av3_scac	AV3	Sales Comparable Approach (Confidence Score)
av3_cavh	AV3	Cost Approach to Value (High)
av3_cavl	AV3	Cost Approach to Value (Low)
av3_cavc	AV3	Cost Approach to Value (Confidence Score)
av3_iavh	AV3	Income Approach to Value (High)
av3_iavl	AV3	Income Approach to Value (Low)
av3_iavc	AV3	Income Approach to Value (Confidence Score)
av3_caprate	AV3	Cap Rate
av3_fico	AV3	FICO Score
av3_olv	AV3	Orderly Liquidation Value
av3_flv	AV3	Forced Liquidation Value

** Not supported by INV and INQ

† Not supported by AV3

Note: When using return parameters in QCE, CMM, FNR, and HSD:

- The **return_structuresrpc** parameter will include the replacement cost for each structure in the property separated by a “|” (pipe) character.
- The **return_ACV** parameter will include the ACV range for each structure in the property separated by a “|” (pipe) character.

9.3 Commercial Variable Lists

consttype (Construction Type)

A - frame
fireproof structural steel frame
foam form concrete
framing, steel
framing, wood
framing, wood with elevated slab
hoop arch
masonry bearing walls
masonry, block
masonry, brick
masonry, stone
metal frame
metal frame (slant)
milled timbers
pole frame
post and beam
prefabricated
quonset
reinforced concrete frame
stucco on masonry
veneer, brick
veneer, brick with wood frame
veneer, stone
wood frame, modular

roofcov (Roof Covering)

acrylic

bituthene, self-seal
 built-up composition, high rise, 3 ply
 built-up composition, low rise, 3 ply
 built-up tar and gravel
 copper clad stainless steel
 copper, standing seam
 corrugated aluminum
 corrugated composition
 corrugated fiberglass
 corrugated galvanized iron
 Dibiten
 earth covered
 glass panels
 metal other than standing seam
 metal, standing seam
 plastic, elastomeric membrane
 plastic, elastomeric membrane, loose, trocal
 plastic, elastomeric membrane, neoprene
 polycarbonate panels
 polyethylene film
 rubber
 shakes, cedar
 shakes, wood
 shingles, aluminum tab
 shingles, architectural
 shingles, asbestos replacement
 shingles, asphalt
 shingles, cedar
 shingles, composition
 shingles, composition asphalt
 shingles, dimensional asphalt
 shingles, fiberglass tabs
 shingles, Minera
 shingles, porcelain enamel
 shingles, wood
 silicone, 3 ply, rolled
 steel
 tile, barrel
 tile, clay, flat bed
 tile, clay, glazed, interlock
 tile, clay, Spanish
 tile, concrete, flat
 tile, concrete, interlock
 tile, concrete, premium
 tile, Ludowici
 tile, slate
 tile, slate, graduated
 tile, slate, patterned
 tile, slate, red
 tile, slate, synthetic
 urethane foam, silicone cover

structtype (Structure Type)

 Apartment
 Auditorium

Auto, mini-lube
Auto, sales/showroom
Auto, service center
Auto, service repair
Bank, branch
Bar/Tavern
Beauty Salon/Barber Shop
Bowling alley
Car wash
Church
Cold storage facility
College, dormitory
Community center
Concession stand
Condominium
Convenience market
Country club
Courthouse
Day care center
Dispensary/urgent care
Dressing and shower facility
Fire station, paid
Fire station, volunteer
Fraternal building
Funeral home
Garage, parking
Garage, underground parking
Government building
Greenhouse
Handball/racquetball club
Hangar, aircraft
Health club
Home improvement center
Hospital, convalescent
Hospital, general
Hospital, veterinary
Hotel
Indoor tennis club
Jail
Laboratory
Laundromat
Library, public
Manufacturing, heavy
Manufacturing, light
Medical office
Motel
Multi-family residence
Multiple residence, elderly
Office
Pavilion, open
Post office, branch
Post office, main
Prison
Restaurant
Restaurant, fast food
Restroom building

Rink, hockey
School, elementary
School, gymnasium
School, secondary
School, vocational
Shopping center, strip
Social club
Store, department
Store, discount
Store, retail
Supermarket
Surgical center
Swimming pool, enclosed
Terminal, airport
Terminal, bus
Theater, movie
Warehouse
Warehouse, mini storage
Warehouse, self storage

ovrlcondition (Overall Condition)

excellent
above average
average
below average
poor

extwall (Exterior Wall)

brick veneer, face brick
brick veneer, glazed
brick veneer, jumbo
brick veneer, large
brick veneer, norman
brick veneer, roman
brick veneer, standard
brick wall, cavity
brick wall, reinforced
concrete block
concrete block, glazed
concrete block, slumpstone
concrete block, split face
concrete wall, cast in place
metal siding, aluminum, simulated wood
metal siding, baked enamel
metal siding, corrugated aluminum
metal siding, corrugated aluminum, painted
metal siding, corrugated composition
metal siding, corrugated fiberglass
metal siding, corrugated galvanized iron
metal siding, porcelain
panels, brick
panels, cement fiber
panels, concrete block
panels, fiberglass

panels, glass and aluminum
 panels, glass and metal
 panels, polycarbonate (greenhouse)
 panels, rubble
 panels, sandwich
 panels, stone
 panels, stucco
 polyethylene film (greenhouse)
 precast concrete panel
 precast concrete panel, granite finish
 siding, barn board
 siding, board and batten
 siding, cedar beveled
 siding, cedar shingles
 siding, glasweld
 siding, hardboard
 siding, lap board
 siding, plywood
 siding, redwood beveled
 siding, spaced board
 siding, tongue and groove
 siding, vinyl
 stone veneer, arizona stone
 stone veneer, granite
 stone veneer, lava stone
 stone veneer, limestone
 stone veneer, rubble
 stone veneer, sandstone
 stucco
 tilt-up, concrete wall
 tilt-up, concrete wall, with pilasters

9.4 Residential Variable Lists

architectural_style (non-manufactured homes)

 2 - Family Home
 3 - Family Home
 4 - Family Home
 A - Frame
 Adirondack
 Adobe
 American 4-Square
 Architecturally Unique
 Art Deco
 Art Moderne
 Arts and Crafts Style
 Basic
 Beaux Arts
 Bi - level
 Brownstone
 Brownstone, Bowfront Victorian
 Brownstone, Bowfront Victorian - End Unit
 Brownstone, End Unit

Brownstone, Victorian
Brownstone, Victorian - End Unit
Bungalow
California Ranch
Cape Cod
Castle - like
Chalet
Charleston
Chateau
City House
City House, Art Deco
City House, Art Deco - End Unit
City House, Art Moderne
City House, Art Moderne - End Unit
City House, Beaux Arts Classical
City House, Beaux Arts Classical - End Unit
City House, End Unit
City House, Gothic
City House, Gothic - End Unit
City House, International Style
City House, International Style - End Unit
City House, Italianate
City House, Italianate - End Unit
City House, Neo-Classical
City House, Neo-Classical - End Unit
City House, Renaissance Revival
City House, Renaissance Revival - End Unit
City House, Romanesque
City House, Romanesque - End Unit
City House, Second Empire
City House, Second Empire - End Unit
City House, Sullivanese
City House, Sullivanese - End Unit
Classical Revival
Colonial
Colonial, Dutch
Colonial, Eclectic
Colonial, French
Colonial, New England Style
Colonial, Revival
Colonial, Southern
Colonial, Spanish
Colonial, Tract
Conch
Contemporary
Contemporary, California
Contemporary, English
Contemporary, French
Contemporary, Tudor
Contractor Modern
Converted Barn
Cottage
Country Style
Craftsman Style
Deconstruction
Designed by a Famous Architect

Duplex
Earth Shelter, Bermed
Earth Shelter, Hillside
Earth Shelter, Underground
English Style
European Influenced
Farmhouse
Federal
Fourplex
French Provincial
French Style
Georgian
Georgian Revival
German Stone
Gingerbread
Gothic Revival
Greek Revival
Gulf Coast Style
High Ranch
International Style
Italian Villa
Italianate
Key West Style
Log
Mansion
Mediterranean
Mission Style
Moderne
Monterey Style
Normandy Style
Octagon
One - of - a - Kind
Palatial
Period
Post Modern
Prairie Style
Public Building-like
Pueblo
Queen Anne
Raised Cape
Raised Ranch
Rambler
Ranch
Regency
Richardsonian Romanesque
Santa Barbara
Santa Fe Style
Second Empire
Shingle Style
Shotgun Style
Southampton Style
Spanish Mission
Spanish Revival
Spanish Style
Split entry
Split level

Stick, Eastern
Stick, Western
Townhouse
Townhouse, End Unit
Townhouse, Federal Style
Townhouse, Federal Style - End Unit
Townhouse, Georgian Style
Townhouse, Georgian Style - End Unit
Tract home
Tri - level
Triplex
Tudor
Vernacular/Folk
Victorian
Wrightian

construction_quality (non-manufactured homes)

above average / upgraded
average / standard
basic / economic
expensive / custom
modest / fair
opulent / museum quality
very expensive / luxury

physical_shape

angular (few to no right angles)
complicated
contemporary
curvy (extensive curves)
H - shaped
I - shaped
L - shaped
octagonal
rectangular
rectangular with angled wing
rounded
square
T - shaped
U - shaped
unique

construction_type (non-manufactured homes)

A - frame
autoclaved aerated concrete
foam form concrete
framing, steel
framing, wood
framing, wood with elevated slab
log
masonry, block
masonry, brick
masonry, stone

modular, wood frame
poured concrete
rammed earth
stick
structural insulated panel
stucco on frame
stucco on masonry
timber/post & beam
veneer, brick
veneer, brick with wood frame
veneer, stone

primary_exterior / secondary_exterior

adobe
aluminum siding
asbestos replacement, cement fiber
asphalt
autoclaved aerated concrete, exposed
autoclaved aerated concrete, painted
board and batten
brick masonry
brick w/block backup
brownstone
cedar siding
cement fiber
clapboard
clay tile
concrete block
concrete block, painted
concrete, reinforced
decorative wood shingle
Drivit/EIFS
glass block
glass panels
half log siding
hardboard
limestone
local stone
log (<11" diameter)
log (>11" diameter)
Masonite
metal siding
paint
plywood with batts
precast concrete
precast stone
rammed earth
redwood siding
siding, log
solid stone
steel siding
stone rubble
stucco
stucco over masonry
stucco with half timbering

stucco, slick finish
stucco, smooth coat
stucco, Tuscan finish
T1-11 siding
Tabby siding
veneer, common brick
veneer, face brick
veneer, rubble
veneer, stone
vinyl siding
wood shake/shingle
wood siding
wood stressskin panels

primary_roof_covering / secondary_roof_covering (n/a for geodesic domes)

aluminum
architectural shingle
asbestos shingle replacement
asphalt shingle
barrel tile
cedar shingle/shake
cement fiber
clay tile
composition roll
composition shingle
composition, built-up
concrete tile
Dibiten
dimensional asphalt shingle
earth covered
Elastomeric
EPDM membrane
fiberglass shingle
glass panel
glazed tile
hail proof shingle
Lamarite shingle
Ludowici tile
metal other than standing seam
metal, corrugated
metal, ribbed
Minera shingle
polyurethane foam
PVC membrane
red slate
rubber
slate
slate, graduated
slate, patterned
slate, synthetic
Spanish tile
standing seam copper
standing seam metal
steel
tar and gravel

TPO membrane
wood shake
wood shingle

locale

beachfront
city, large
city, medium
city, small
coastal
exclusive pocket
gated community
island, accessible by boat only
island, accessible by bridge
remote, moderate
remote, slight
remote, very
resort
rural
suburban
town
urban
waterfront

state

Alabama
Alaska
Arizona
Arkansas
California
Colorado
Connecticut
Delaware
District of Columbia
Florida
Georgia
Hawaii
Idaho
Illinois
Indiana
Iowa
Kansas
Kentucky
Louisiana
Maine
Maryland
Massachusetts
Michigan
Minnesota
Mississippi
Missouri
Montana

Nebraska
Nevada
New Hampshire
New Jersey
New Mexico
New York
North Carolina
North Dakota
Ohio
Oklahoma
Oregon
Pennsylvania
Rhode Island
South Carolina
South Dakota
Tennessee
Texas
Utah
Vermont
Virginia
Washington
West Virginia
Wisconsin
Wyoming

9.5 Streaming PDF Return

Please visit the XML Integration Center at <https://evs.e2value.com/evs/xml> for information related to receiving the appraisal output in a PDF format. All the information is listed under “Streaming PDF Return.”