

BIN Electronic Data Interchange using XML

Overview

BIN application connects provider's databases. When a client is referred from one provider to another provider, at the receiving end the case workers need to key the client information back to their case management or client tracking application (legacy).

To avoid the re-keying of information, an EDI feature is added to BIN. Using this feature, users can download a client's information from BIN to either in delimited ASCII text format or XML (Extensible Markup Language) format. And have their application to read the downloaded file and pre-fill their application screens.

For instance when a client is referred by Workforce one to a Broward County Family Success Center, the case worker should be able to download the client's information from BIN and upload it to their Case Management tool.

Using XML technologies the client's information can be directly pulled from BIN to any application seamlessly. This document explains how that can be achieved with examples.

Downloading Client's information from BIN

Using the EDI feature, a client's information can be downloaded in Text format or xml format to the user's pc. From the BIN application, a search can be performed for a client, which will return a list of clients from various BIN providers along with matching scores. When the user selects a client, he/she will be forwarded to the client main screen which has basically four options.

1. View More Information about the client

(The list of provider's who have this client information stored in their databases are displayed, the user can select any provider from the list and go to their database to get more information about the client)

2. Add Information to the client

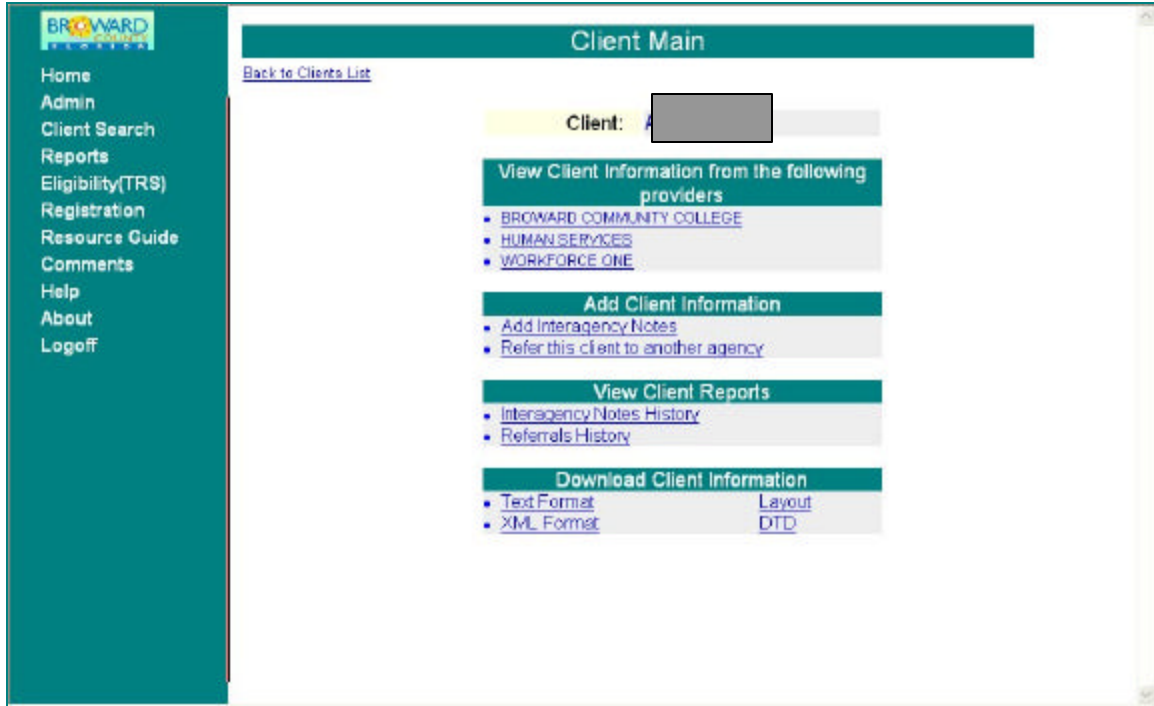
(Case workers can add a note to a client or can refer a client to another agency)

3. Run Report on the client

(Interagency notes history and referrals history reports)

4. Download Client Information

(Case workers can download a client's information from BIN either in XML or text format)



By Clicking Text format or XML format users can download the client's information into their PCs.

The layout of the text file can be downloaded by clicking the Layout link.

Text File Layout:

Client Information: ASCII Text format Delimited by ',' and enclosed within quotes

```

=====
#   Element                Type
==   =====                =====
01. First Name             CHAR
02. Last Name              CHAR
03. SSN                    CHAR
04. DOB                    CHAR
05. Ethnicity              CHAR
06. Gender                 CHAR
07. Age                    CHAR
08. Address                CHAR
09. City                   CHAR
10. State                  CHAR
11. Zip                    CHAR
12. Phone                  CHAR
13. Alt Phone              CHAR
14. Employer Name         CHAR
15. Employer Address      CHAR
16. Employer City         CHAR
17. Employer State        CHAR
18. Employer Zip          CHAR
19. Employer Phone        CHAR
=====

```

XML DTD

```
<!ELEMENT Client (FirstName, LastName, SSN, DOB, Ethnicity, Gender,
Age, Address, City, State, Zip, Phone, AltPhone, EmpName, EmpAddress,
EmpCity, EmpState, EmpZip, EmpPhone)>
<!ELEMENT FirstName (#PCDATA)>
<!ELEMENT LastName (#PCDATA)>
<!ELEMENT SSN (#PCDATA)>
<!ELEMENT DOB (#PCDATA)>
<!ELEMENT Ethnicity (#PCDATA)>
<!ELEMENT Gender (#PCDATA)>
<!ELEMENT Age (#PCDATA)>
<!ELEMENT Address (#PCDATA)>
<!ELEMENT City (#PCDATA)>
<!ELEMENT State (#PCDATA)>
<!ELEMENT Zip (#PCDATA)>
<!ELEMENT Phone (#PCDATA)>
<!ELEMENT AltPhone (#PCDATA)>
<!ELEMENT EmpName (#PCDATA)>
<!ELEMENT EmpAddress (#PCDATA)>
<!ELEMENT EmpCity (#PCDATA)>
<!ELEMENT EmpState (#PCDATA)>
<!ELEMENT EmpZip (#PCDATA)>
<!ELEMENT EmpPhone (#PCDATA)>
```

The client information can be downloaded into the User's PC. Each provider can write their own programs to read from the downloaded file and then upload it to their case management applications (legacy).

Or they can directly pull the xml document from BIN by providing BIN ID, user id and password for BIN.

Direct XML integration

Client information can be pulled directly from BIN by providing the URL <http://x.x.x.x/binappl/getClientInfoXML?BinId=<BinId>&UserId=<UserId>&Password=<Password>>

The BINID of the client, User ID and Password for BIN has to be passed to get the ClientInfo.xml document. Then the document can be parsed using some parsers and can be used in provider's application.

The following the sample code BIN_EDI_SAMPLE.htm

```

<html>
<head><title> BIN EDI Sample Application </title>
<script language="Javascript1.2">
    var BinId = ""
    var FirstName = ""
    var LastName = ""
    var SSN = ""
    var BirthDate = ""
    var Ethnicity = ""
    var Gender = ""
    var Age = ""
    var Address = ""
    var City = ""
    var State = ""
    var Zip = ""
    var Phone = ""

    function GetXml()
    {

        BinId = prompt("Enter The BIN ID", "");
        UserId = prompt("Enter your BIN User ID", "");
        Password = prompt("Enter your BIN Password", "");

        if(BinId == "" || UserId=="" || Password=="")
        {
            alert("Error!!!, Please close the browser and restart");
        }
        else
        {

            var xmlDoc=new ActiveXObject("Microsoft.XMLDOM")
            xmlDoc.async="false"
            xmlDoc.load("http://X.X.X.X/binappl/getClientInfoXML?BinId=" +
BinId + "&UserId=" + UserId + "&Password=" + Password)

            nodes=xmlDoc.documentElement.childNodes
            a1.innerText=nodes.item(0).text
            a2.innerText=nodes.item(1).text
            a3.innerText=nodes.item(2).text
            a4.innerText=nodes.item(3).text
            a5.innerText=nodes.item(4).text
            a6.innerText=nodes.item(5).text

```

```
a7.innerHTML=nodes.item(6).text
a8.innerHTML=nodes.item(7).text
a9.innerHTML=nodes.item(8).text
a10.innerHTML=nodes.item(9).text
a11.innerHTML=nodes.item(10).text
a12.innerHTML=nodes.item(11).text
```

```
    }
}
```

```
</script>
</head>
```

```
<body bgcolor="Snow" onload="Javascript:GetXml()">
<form name="BINClientForm" action="">
<input type="hidden" name="BinId" value="00111">
</form>
<center>
<h1><font color="DarkRed">XYZ Case Management System</font></h1>
<h2><font color="DarkGreen">Client Intake Form</font></h2>
<table width="100%" border="0">
  <tr>
    <td bgcolor="#eeeeee">
      <font color="DarkBlue" size="3"><b>First Name:</b>
    </td>
    <td bgcolor=Linen>
      <input type=Text name=FirstName value=<span
id="a1"></span>
    </td>
  </tr>
  <tr>
    <td bgcolor="#eeeeee">
      <font color="DarkBlue" size="3"><b>Last
Name:</b>
    </td>
    <td bgcolor=Linen>
      <input type=Text name=LastName value=<span
id="a2"></span>
    </td>
  </tr>
```

```

<tr>
  <td bgColor="#eeeeee">
    <font color="DarkBlue" size="3"><b>Partial SSN:</b>
  </td>
  <td bgcolor=Linen>
    <input type=Text name=SSN size=9 value=<span
id="a3"></span>
  </td>
</tr>
<tr>
  <td bgColor="#eeeeee">
    <font color="DarkBlue" size="3"><b>Birth Date:</b>
  </td>
  <td bgcolor=Linen>
    <input type=Text name=BirthDate size=10 value=<span
id="a4"></span>
  </td>
</tr>
<tr>
  <td bgColor="#eeeeee">
    <font color="DarkBlue" size="3"><b>Ethnicity:</b>
  </td>
  <td bgcolor=Linen>
    <input type=Text name=Ethnicity value=<span
id="a5"></span>
  </td>
</tr>
<tr>
  <td bgColor="#eeeeee">
    <font color="DarkBlue" size="3"><b>Gender:</b>
  </td>
  <td bgcolor=Linen>
    <input type=Text name=Gender size="10" value=<span
id="a6"></span>
  </td>
</tr>
<tr>
  <td bgColor="#eeeeee">
    <font color="DarkBlue" size="3"><b>Age:</b>
  </td>
  <td bgcolor=Linen>
    <input type=Text name=Age size="3" value=<span
id="a7"></span>
  </td>
</tr>

```

```

        </td>
    </tr>
    <tr>
        <td bgColor="#eeeeee">
            <font color="DarkBlue" size="3"><b>Address:</b>
        </td>
        <td bgcolor=Linen>
            <input type=Text name=Address size=50 value=<span
id="a8"></span>
        </td>
    </tr>
    <tr>
        <td bgColor="#eeeeee">
            <font color="DarkBlue" size="3"><b>City:</b>
        </td>
        <td bgcolor=Linen>
            <input type=Text name=City size=20 value=<span
id="a9"></span>
        </td>
    </tr>
    <tr>
        <td bgColor="#eeeeee">
            <font color="DarkBlue" size="3"><b>State:</b>
        </td>
        <td bgcolor=Linen>
            <input type=Text name=State size=2 value=<span
id="a10"></span>
        </td>
    </tr>
    <tr>
        <td bgColor="#eeeeee">
            <font color="DarkBlue" size="3"><b>Zip:</b>
        </td>
        <td bgcolor=Linen>
            <input type=Text name=Zip size=5 value=<span
id="a11"></span>
        </td>
    </tr>
    <tr>
        <td bgColor="#eeeeee">
            <font color="DarkBlue" size="3"><b>Phone:</b>
        </td>
        <td bgcolor=Linen>

```

```
        <input type=Text name=Phone value=<span  
id="a12"></span>  
        </td>  
    </tr>  
</table>  
<input type="button" name="button1" Value="Save Client Information" >  
</center>  
</body>  
</html>
```

Cut and paste this code into a notepad and save it as BIN_EDII_SAMPLE.htm.

Double click and open the file, it will ask you to type BIN ID, user Id and password. Once you type the information and press okay, the requested client's information will be populated into a sample intake screen.

This html program is using Microsoft DOM XML parser to parse the information.