

## Part 1: Problem Description

- 1) There are three Radio Buttons (user can check only one of them) for Enforcement Actions, for each of the Radio Button that is checked, there will be a different group of "Delete Reason" showing up.
- 2) When user Submit, a WebFOCUS fex file will be called and the data from two different data sources on different machines will be retrieved and merged to generate the final report output.

A26

**Number of Deleted Enforcement Actions By Detachment**

**Enforcement Action**  HTA s.48  HTA s.48.3  HTA s.172

**Delete Reason**

Error - Duplicate  Error - Wrong Person Suspended

Impersonation  Constitutional Challenge

2nd test below 50 mg  Does not meet legislated requirements

All

## Part 2: The Solution & Code

By carefully designing the *Naming Convention* in web page and elegant JavaScript coding, flexible and powerful functionality can be implemented.

The following codes showed here are after much simplification demo purpose, but it still clearly present the tips in the design and coding.

### 1) report web page

```
<HTML>
<HEAD>
  <TITLE>HtmlPage </TITLE>
  <script language=JavaScript>
    var names = new Array("HTAS48","HTAS483","HTAS172");
    function refreshDeleteReasons(enfc_act) {
      for (var i = 0; i < names.length; i++) {
        var obj = document.getElementById(names[i]);
        obj.style.display = "none";
      }
      var obj2 = document.getElementById(enfc_act);
      obj2.style.display = "inline";
      return true;
    }
    function allSelected(enfc_act) {
```

```

var i = 0;
var obj = document.getElementById(enfc_act + "_" + i++);
while ( obj != null ) {
    obj.checked = false;
    obj = document.getElementById(enfc_act + "_" + i++);
}
}
function resetAllOption(enfc_act) {
    var obj = document.getElementById(enfc_act + "_all");
    if( obj != null )
        obj.checked = false;
}
function calculateSelections() {
    var radios = document.getElementsByName('ENFORCE_ACTION');
    window.alert(radios.length);
}
function checkDelReason() {
    var radios = document.getElementsByName("ENFORCE_ACTION");
    var i = 0;
    for ( ; i < radios.length; i++ ) {
        if ( radios[i].checked ) break;
    }
    var enfc_act = radios[i].value;
    obj = document.getElementById("SIMS_DEL_TYPES");
    obj.value = retrieveOptions(enfc_act);
    var obj1 = document.getElementById("SIMS_DEL_TYPES_TXT");
    obj1.value = retrieveOptionsTxt(enfc_act);
    if ( enfc_act == "HTAS483" ) {
        var obj2 = document.getElementById("ADLS_DEL_TYPES");
        obj2.value = retrieveOptions("ADLS");
        var obj3 = document.getElementById("ADLS_DEL_TYPES_TXT");
        obj3.value = retrieveOptionsTxt("ADLS");
    }
}
function retrieveOptions(enfc_act) {
    var j = 0;
    var k = 0;
    var options = "";
    var obj = document.getElementById(enfc_act + "_" + j++);
    while ( obj != null ) {
        if ( obj.checked ) {
            if ( k == 0 ) {
                options = "" + obj.value + "";
                k++;
            } else {
                options += "," + obj.value + "";
            }
        }
    }
}

```

```

        }
    }
    obj = document.getElementById(enfc_act + "_" + j++);
}
if( k == 0) {
    obj = document.getElementById(enfc_act + "_all");
    obj.checked = true;
    j = 0;
    options = "";
    obj = document.getElementById(enfc_act + "_" + j++);
    while ( obj != null ) {
        if ( k == 0) {
            options = "" + obj.value + "" ; k++;
        } else {
            options += "," + obj.value + "" ;
        }
        obj = document.getElementById(enfc_act + "_" + j++);
    }
}
return options;
}
function retrieveOptionsTxt(enfc_act) {
    var j = 0;
    var k = 0;
    var options = "";
    var obj = document.getElementById(enfc_act + "_" + j++);
    while ( obj != null ) {
        if ( obj.checked ) {
            if ( k == 0) {
                options = obj.nextSibling.nodeValue;
                k++;
            } else {
                options += "," + obj.nextSibling.nodeValue ;
            }
        }
        obj = document.getElementById(enfc_act + "_" + j++);
    }
    if( k == 0) {
        obj = document.getElementById(enfc_act + "_all");
        obj.checked = true;
        j = 0;
        options = "";
        obj = document.getElementById(enfc_act + "_" + j++);
        while ( obj != null ) {
            if ( k == 0) {
                options = obj.nextSibling.nodeValue; k++;
            }
        }
    }
}

```

```
    } else {
        options += "," + obj.nextSibling.nodeValue;
    }
    obj = document.getElementById(enfc_act + "_" + j++);
}
}
return options;
}
```

```
</script>
```

```
<STYLE TYPE="text/css" MEDIA=screen>
```

```
<!--
```

```
body
{ font-family: Arial, sans-serif; font-size: 11px;
margin: 10px; cursor: default; background-color: #9FB3CD; }
form
{ margin: 0; }
table
{border-collapse: collapse; }
TD
{ font-family: Arial, sans-serif; font-size: 11px; padding: 2px; }

.ReportTitle
{ font-size: 13px; font-weight: bold; color: #FFFFFF; text-align: center; }
.FormLabel
{ font-size: 11px; font-weight: bold; }
.FormButton
{ font-size: 11px; font-weight: bold; width: 60px; cursor: hand; }
```

```
-->
```

```
</STYLE>
```

```
<META content="WebFocus Report Layout Painter" name="Generator"
```

```
</HEAD>
```

```
<BODY >
```

```
<FORM method=post name="form" target="RepOut">
```

```
<INPUT type=hidden value=williamz/williamz.htm name="IBIMR_domain">
```

```
<INPUT type=hidden value=MR_RUN_FEX name="IBIMR_action">
```

```
<INPUT type=hidden value=MR_STD_REPORT name="IBIMR_sub_action">
```

```
<INPUT type=hidden value=app/a26adls.fex name="IBIMR_fex">
```

```
<INPUT type=hidden value=app/a26adls.fex name="IBIF_ex">
```

```
<INPUT type=hidden value=#newfolderfh1 name="IBIMR_folder">
```

```
<INPUT type=hidden value=15:22:58 name="IBIMR_random">
```

```
<INPUT type=hidden id="SIMS_DEL_TYPES" name="SIMS_DEL_TYPES" value=""/>
```

```
<INPUT type=hidden id="ADLS_DEL_TYPES" name="ADLS_DEL_TYPES" value=""/>
```

```
<INPUT type=hidden id="SIMS_DEL_TYPES_TXT" name="SIMS_DEL_TYPES_TXT" value=""/>
```

```
<INPUT type=hidden id="ADLS_DEL_TYPES_TXT" name="ADLS_DEL_TYPES_TXT" value=""/>
```

Tip 1:  
Variables that will be used in fex program (SQL where clause)

Tip 2:  
Variables that will be used in fex program (footer text)

SIMS\_DEL\_TYPES  
ADLS\_DEL\_TYPES

SIMS\_DEL\_TYPES\_TXT  
ADLS\_DEL\_TYPES\_TXT

```

<center>
<table cellspacing="0" cellpadding="0" border="0">
<tr><td style="height: 20px;"></td></tr>
<tr>
    <td colspan="2" align="center"><SPAN class="ReportTitle">
        Number of Deleted Enforcement Actions By Detachment</SPAN></td>
</tr>
<tr><td style="height: 20px;"></td></tr>
<tr>
<td><SPAN class="FormLabel">Enforcement Action</SPAN></td>
<td valign="middle">
<input type="radio" name="ENFORCE_ACTION" value="HTAS48" checked
    title="Warn Range (HTA s.48)" onclick="refreshDeleteReasons('HTAS48');" > HTA s.48
<input type="radio" name="ENFORCE_ACTION" value="HTAS483"
    title="ADLS (HTA s.48.3)" onclick="refreshDeleteReasons('HTAS483');" > HTA s.48.3
<input type="radio" name="ENFORCE_ACTION" value="HTAS172"
    title="Street Racing (HTA s.172)" onclick="refreshDeleteReasons('HTAS172');" >HTA s.172
</td>
</tr>

```

Tip 3:  
Naming the parent category

Tip 4:  
Naming the sub-category to facilitate the JavaScript coding

```

<tr><td style="height: 20px;"></td></tr>
<tr>
<td colspan="2" align="center"><SPAN class="FormLabel">Delete Reason</SPAN></td>
<td>
<span id="HTAS48" name="HTAS48" style="display: inline;">
<span style="width: 140px;">
    <input type="checkbox" id="HTAS48_0" value="ERROR_DUPLICATE"
        onClick="resetAllOption('HTAS48');" >Error - Duplicate</span>
<span style="width: 240px;">
    <input type="checkbox" id="HTAS48_1" value="ERROR_WRONG_PERSON"
        onClick="resetAllOption('HTAS48');" >Error - Wrong Person Suspended</span><br>
<span style="width: 140px;">
    <input type="checkbox" id="HTAS48_2" value="MISTAKEN_IDENTITY"
        onClick="resetAllOption('HTAS48');" >Impersonation</span>
<span style="width: 240px;">
    <input type="checkbox" id="HTAS48_3" value="CONST_CHALLENGE"
        onClick="resetAllOption('HTAS48');" >Constitutional Challenge</span><br>
<span style="width: 140px;">
    <input type="checkbox" id="HTAS48_4" value="TEST_2_BELOW_50"
        onClick="resetAllOption('HTAS48');" >2nd test below 50 mg</span>
<span style="width: 240px;">
    <input type="checkbox" id="HTAS48_5" value="NOT_MEET_LEGISLATION"
        onClick="resetAllOption('HTAS48');" >Does not meet legislated requirements</span><br>
<span style="width: 85px;">
    <input type="checkbox" id="HTAS48_all" value=""
        onClick="allSelected('HTAS48');" ><b>All</b></span>

```

```
</span>
<span id="HTAS483" name="HTAS483" style="display: none;">
<span style="width: 140px;"><input type="checkbox" id="ADLS_0" value="4"
  onClick="resetAllOption('ADLS');">Police Error</span>
<span style="width: 100px;"><input type="checkbox" id="ADLS_1" value="5"
  onClick="resetAllOption('ADLS');">Rescind</span>
<span style="width: 100px;"><input type="checkbox" id="ADLS_2" value="1"
  onClick="resetAllOption('ADLS');">Appeal</span><br>
<span style="width: 140px;"><input type="checkbox" id="ADLS_3" value="3"
  onClick="resetAllOption('ADLS');">Operator Delete</span>
<span style="width: 240px;"><input type="checkbox" id="ADLS_4" value="2"
  onClick="resetAllOption('ADLS');">Constitutional Challenge</span><br>
<span style="width: 85px;"><input type="checkbox" id="ADLS_all" value=""
  onClick="allSelected('ADLS');"><b>All</b></span>
<hr style="text-align: left; width: 100%; height:1px; color: #000; "/>
<span style="width: 140px;">
  <input type="checkbox" id="HTAS483_0" value="NOT_OVER_80"
    onClick="resetAllOption('HTAS483');">BAC not over 80mg.</span>
<span style="width: 240px;">
  <input type="checkbox" id="HTAS483_1" value="DEMAND_NOT_MADE"
    onClick="resetAllOption('HTAS483');">Demand not made under S.254 CCC
</span><br>
<span style="width: 140px;">
  <input type="checkbox" id="HTAS483_2" value="CONST_CHALLENGE"
    onClick="resetAllOption('HTAS483');">Constitutional Challenge</span>
<span style="width: 240px;">
  <input type="checkbox" id="HTAS483_3" value="NO_CARE"
    onClick="resetAllOption('HTAS483');">No care, charge or control of vehicle
</span><br>
<span style="width: 140px;">
  <input type="checkbox" id="HTAS483_4" value="ERROR_DUPLICATE"
    onClick="resetAllOption('HTAS483');">Error - Duplicate</span>
<span style="width: 240px;">
  <input type="checkbox" id="HTAS483_5" value="ERROR_WRONG_PERSON"
    onClick="resetAllOption('HTAS483');">Error - Wrong Person Suspended</span><br>
<span style="width: 140px;">
  <input type="checkbox" id="HTAS483_6" value="MISTAKEN_IDENTITY"
    onClick="resetAllOption('HTAS483');">Impersonation</span>
<span style="width: 240px;">
  <input type="checkbox" id="HTAS483_7" value="NOT_MOTOR_VEHICLE"
    onClick="resetAllOption('HTAS483');">Not a vehicle under HTA S.48.3
</span><br>
<span style="width: 140px;">
  <input type="checkbox" id="HTAS483_8" value="SUCCESS_APPEAL"
    onClick="resetAllOption('HTAS483');">Successful Appeal</span>
<span style="width: 240px;">
```

```

        <input type="checkbox" id="HTAS483_9" value="OTHER"
            onClick="resetAllOption('HTAS483');">Other(explanation required)</span><br>
<span style="width: 85px;">
    <input type="checkbox" id="HTAS483_all" value=""
        onClick="allSelected('HTAS483');"><b>All</b></span>
</span>
<span id="HTAS172" name="HTAS172" style="display: none;">
<span style="width: 140px;">
    <input type="checkbox" id="HTAS172_0" value="ERROR_DUPLICATE"
        onClick="resetAllOption('HTAS172');">Error - Duplicate</span>
<span style="width: 240px;">
    <input type="checkbox" id="HTAS172_1" value="ERROR_WRONG_PERSON"
        onClick="resetAllOption('HTAS172');">Error - Wrong Person Suspended</span><br>
<span style="width: 140px;">
    <input type="checkbox" id="HTAS172_2" value="MISTAKEN_IDENTITY"
        onClick="resetAllOption('HTAS172');">Impersonation</span>
<span style="width: 240px;">
    <input type="checkbox" id="HTAS172_3" value="CONST_CHALLENGE"
        onClick="resetAllOption('HTAS172');">Constitutional Challenge</span><br>
<span style="width: 380px;">
    <input type="checkbox" id="HTAS172_4" value="NOT_MEET_LEGISLATION"
        onClick="resetAllOption('HTAS172');">
        Does not meet legislated requirements (explanation required)</span><br>
<span style="width: 85px;">
    <input type="checkbox" id="HTAS172_all" value=""
        onClick="allSelected('HTAS172');"><b>All</b></span>
</span>
</td>
</tr>
<tr><td style="height: 20px;"></td></tr>
<tr>
<td></td>
<td align="left">
<INPUT class="FormButton" type=submit value="Submit"
    onClick="checkDelReason();"><span style="width: 20px;"></span>
<INPUT class="FormButton" type=reset value="Reset"
    onclick="refreshDeleteReasons('HTAS48'); "></td>
</tr>
</table>
</FORM>
</BODY>
</HTML>

```

## 2) report fex file

```
-* connection to database server 1  
SET SQLENGINE=SQLORA  
SQL SET SERVER database1  
SQL
```

Variable SIMS\_DEL\_TYPES from web page will be used in the SQL's where clause.

```
[ SQL query 1 ... ]
```

```
;  
TABLE ON TABLE HOLD AS hold1  
END  
-RUN  
-*
```

```
-* connection to database server 2  
SET SQLENGINE=SQLORA  
SQL SET SERVER database2  
SQL
```

Variable ADLS\_DEL\_TYPES from web page will be used in the SQL's where clause.

```
[ SQL query 2 ... ]
```

```
;  
TABLE ON TABLE HOLD AS hold2  
END  
-RUN  
-*
```

```
-* Merge the two hold files  
TABLE FILE hold1  
PRINT  
.....  
BY .....  
ON TABLE HOLD AS DATA_MERGED
```

```
-*  
MORE  
-*  
FILE hold1  
END
```

```
-RUN  
-*
```

```
-* report layout
```

Variables SIMS\_DEL\_TYPES\_TXT and ADLS\_DEL\_TYPES\_TXT from web page will be used in the Report Layout