WebFOCUS HTML Report Accessibility Support

WebFOCUS HTML report accessibility provides support for assistive technologies, such as screen readers.

WebFOCUS HTML report output complies with accessibility requirements as a result of the following features:

- A SET command that activates accessibility changes to WebFOCUS HTML output code.
- A SUMMARY attribute in a WebFOCUS StyleSheet that describes information contained in a report or graph.
- An ALT StyleSheet attribute in a drill-down report or graph that describes the detail information you can select.
- An ALT StyleSheet attribute that describes an image embedded in a report.
- A scope attribute included in the <th> tag for column titles.
- As of Release 8.2 Version 01M, a lang attribute included on the <html> element that identifies the default language of the document.
- As of Release 8.2 Version 02, all report output is created with BYDISPLAY=ON, which produces a value in each cell for sort (BY) fields.

Using the up and down arrow keys to navigate HTML report output may produce undesirable results, depending upon the content of the report. WebFOCUS HTML report accessibility provides support for assistive technologies, such as screen readers, when the report request complies with the accessibility requirements. In order to read 508-enabled reports effectively with JAWS, it is recommended to use the table reading commands. Refer to the Freedom Scientific website (http://www.freedomscientific.com/) for specific commands for your version of JAWS.

For browser compatibility and Information Builders accessibility support for JAWS, refer to the Information Builders Web Browser Support for WebFOCUS documentation at:

https://techsupport.informationbuilders.com/tech/wbf/wbf_tmo_027.html
Controlling HTML Code for Accessibility

In this document:

- Controlling HTML Code for Accessibility
- Centering a Heading
- Summarizing Report or Graph Information
- Describing Drill-Down Information
- Adding Descriptive Text to an Image
- On Demand Paging (ODP) WebViewer Support
- Accessibility Limitations

Controlling HTML Code for Accessibility

The SET ACCESSHTML command controls the generation of HTML code for page headings, page footings, sort headings, sort footings, and column titles in a WebFOCUS report. It also controls the HTML code generated for strong emphasis (boldface) and italics.

When SET ACCESSHTML is set to 508, the generated code supports products for disabled accessibility.

In releases prior to Release 8.2 Version 02, the SET BYDISPLAY=ON or ON TABLE SET BYDISPLAY command is required to produce a value in each cell for sort (BY) fields.

Syntax: How to Control HTML Code Accessibility

- For all requests in a procedure or for profile implementation:
  
  \[ \text{SET ACCESSHTML} = \{508\mid \text{OFF}\} \]
  
- For one request:
  
  \[ \text{ON TABLE SET ACCESSHTML} \{508\mid \text{OFF}\} \]
  
or
  
  \[ \text{ON GRAPH SET ACCESSHTML} \{508\mid \text{OFF}\} \]
  
  where:
  
  508

  Generates HTML code compliant with Section 508 accessibility requirements.
This setting automatically turns off pagination, so a report appears as a single page. Column titles and headings are displayed only once at the top, and footings are displayed only once at the bottom.

**OFF**

Generates HTML code that is non-compliant with Section 508 accessibility requirements. This value is the default.

**Note:** In order for accessible HTML reports to include the styling tags adjacent to the corresponding string being styled, accessible HTML report request processing uses the HTMLCSS=OFF setting. For more information on the HTMLCSS setting, see the *Developing Reporting Applications* manual.

**Note:** In earlier 7.7.x releases, the SET ACCESSIBLE command was the only accessibility command supported. In later releases, the SET ACCESSHTML command is available.

For upward compatibility with earlier 7.7.x releases, the following legacy commands are still available:

```
SET ACCESSIBLE = 508
```

```
ON TABLE SET ACCESSIBLE 508
```

**Example:**  **Controlling HTML Code for Accessibility**

The SET command that enables accessibility appears in boldface:

```
TABLE FILE EMPLOYEE
HEADING
"SALARY REPORT"
"FOR COMPANY EMPLOYEES"
FOOTING
"FOR INTERNAL USE ONLY"
PRINT EMP_ID
BY DEPARTMENT
BY SALARY
ON DEPARTMENT SUBFOOT
"<DEPARTMENT SALARY TOTAL: <ST.SALARY "
""
ON TABLE SET ACCESSHTML 508
ON TABLE SET BYDISPLAY ON
ON TABLE SET STYLE *
TYPE=HEADING, LINE=1, STYLE=BOLD,$
TYPE=HEADING, LINE=2, STYLE=ITALIC,$
TYPE=REPORT, GRID=OFF,$
END
```
WebFOCUS generates the following HTML source code when SET ACCESSHTML is set to 508.

**Page Heading**

A page heading in a WebFOCUS report appears in a separate HTML table outside the main report table:

```html
<table cellpadding=0 width="100%"><tr>
<td NOWRAP PAGE 1</td></tr></table></td>
<tr>
<td NOWRAP colspan=3>&nbsp;</td>
</tr>
<tr>
<td NOWRAP colspan=3><strong>SALARY REPORT</strong></td>
</tr>
<tr>
<td NOWRAP colspan=3><em>FOR COMPANY EMPLOYEES</em></td>
</tr>
</table>
<table cellpadding=1>
.
.
(main report table)
.
</table>

**Text Formatting**

The HTML `<strong>` tag is used instead of the `<b>` tag to designate boldface text and the HTML `<em>` tag is used instead of the `<i>` tag to designate italic text in the WebFOCUS StyleSheet:

```html
<em>FOR COMPANY EMPLOYEES</em></td>
</tr>
</table>
```
**Page Footing**

A page footing in a WebFOCUS report appears in a separate HTML table outside the main report table:

```
<table cellpadding=1>
  . (main report table)
</table>
<table cellpadding=1 style='margin-left:0pt;margin-right:0pt;
margin-top:0pt;margin-bottom:0pt' class='IBI_HEADALIGN_NONE'>
  <tr class='hfrow'>
    <td nowrap class="HFRow1"></td>
    <td nowrap class="HFRow1"></td>
    <td nowrap class="HFRow1"></td>
  </tr>
  <tr>
    <td NOWRAP colspan=3>
      FOR INTERNAL USE ONLY
    </td>
  </tr>
</table>
```

**Sort Heading/Footing**

A sort heading/footing in a WebFOCUS report appears in an HTML table embedded in the main report table:

```
<table cellpadding=1>
  . (main report table)
</table>
<table cellpadding=0 width="100%"><tr>
  <td NOWRAP>
    PAGE 1
  </td></tr></table></td>
</tr>
<tr>
  <td NOWRAP colspan=3>
    &nbsp;
  </td>
</tr>
<tr>
  <td NOWRAP colspan=3>
    <strong>SALARY REPORT</strong>
  </td>
</tr>
<tr>
  <td NOWRAP colspan=3>
    <em>FOR COMPANY EMPLOYEES</em>
  </td>
</tr>
</table>
```
**Column Title**

A column title and scope attribute in a WebFOCUS report appears in the HTML `<th>` tag.

```html
<th scope='col' NOWRAP align=LEFT valign=BOTTOM>
<u>DEPARTMENT</u></th>
<th scope='col' NOWRAP align=RIGHT valign=BOTTOM>
<u>SALARY</u></th>
<th scope='col' NOWRAP align=LEFT valign=BOTTOM>
<u>EMP_ID</u></th>
</tr>
```

The report is:

```
PAGE 1

**SALARY REPORT**

*FOR COMPANY EMPLOYEES*

<table>
<thead>
<tr>
<th>DEPARTMENT</th>
<th>SALARY</th>
<th>EMP_ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS</td>
<td>$8,650.00</td>
<td>543729165</td>
</tr>
<tr>
<td>MIS</td>
<td>$9,000.00</td>
<td>543729165</td>
</tr>
<tr>
<td>MIS</td>
<td>$13,200.00</td>
<td>112847612</td>
</tr>
<tr>
<td>MIS</td>
<td>$17,750.00</td>
<td>117593129</td>
</tr>
<tr>
<td>MIS</td>
<td>$18,480.00</td>
<td>117593129</td>
</tr>
<tr>
<td>MIS</td>
<td>$18,480.00</td>
<td>219984371</td>
</tr>
<tr>
<td>MIS</td>
<td>$21,780.00</td>
<td>326179357</td>
</tr>
<tr>
<td>MIS</td>
<td>$25,775.00</td>
<td>818692173</td>
</tr>
<tr>
<td>MIS</td>
<td>$27,062.00</td>
<td>818692173</td>
</tr>
</tbody>
</table>

**MIS SALARY TOTAL:** $160,177.00

<table>
<thead>
<tr>
<th>PRODUCTION</th>
<th>SALARY</th>
<th>EMP_ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCTION</td>
<td>$9,050.00</td>
<td>119265415</td>
</tr>
<tr>
<td>PRODUCTION</td>
<td>$9,500.00</td>
<td>119265415</td>
</tr>
<tr>
<td>PRODUCTION</td>
<td>$10,000.00</td>
<td>071382660</td>
</tr>
<tr>
<td>PRODUCTION</td>
<td>$11,000.00</td>
<td>071382660</td>
</tr>
<tr>
<td>PRODUCTION</td>
<td>$15,000.00</td>
<td>451123478</td>
</tr>
<tr>
<td>PRODUCTION</td>
<td>$16,100.00</td>
<td>451123478</td>
</tr>
<tr>
<td>PRODUCTION</td>
<td>$21,012.00</td>
<td>126724188</td>
</tr>
<tr>
<td>PRODUCTION</td>
<td>$24,420.00</td>
<td>123764317</td>
</tr>
<tr>
<td>PRODUCTION</td>
<td>$26,862.00</td>
<td>123764317</td>
</tr>
<tr>
<td>PRODUCTION</td>
<td>$29,060.00</td>
<td>119329144</td>
</tr>
</tbody>
</table>

**PRODUCTION SALARY TOTAL:** $172,752.00

FOR INTERNAL USE ONLY
Centering a Heading

The heading is located outside of the main table in a WebFOCUS HTML Section 508 accessible report. The column numbers and widths in the heading table and main table are synchronized to support centering of the heading above the columns in the main table. HEADING CENTER centers the heading over the body of the report by adding the colspan and align=CENTER attributes to the <td> tag for the heading rows in the heading table.

Syntax: How to Center a Heading

HEADING CENTER
"headingline1"
"headingline2"
.
.
.

where:

headingline1,headingline2

Are lines of heading text enclosed in double quotation marks ("").
**Example:** Centering a Heading

This request uses the HEADING CENTER command to center the two heading lines:

```
TABLE FILE EMPLOYEE
HEADING CENTER
"SALARY REPORT"
"FOR COMPANY EMPLOYEES"
FOOTING
"FOR INTERNAL USE ONLY"
PRINT EMP_ID
BY DEPARTMENT
BY SALARY
ON DEPARTMENT SUBFOOT
"<DEPARTMENT SALARY TOTAL: <ST.SALARY "
" "
ON TABLE SET ACCESSHTML 508
ON TABLE SET BYDISPLAY ON
ON TABLE SET STYLE *
TYPE=REPORT, GRID=OFF, FONT=ARIAL, SIZE=8,$
TYPE=HEADING, LINE=1, STYLE=_BOLD,$
TYPE=HEADING, LINE=2, STYLE=ITALIC,$
ENDSTYLE
END
```
The report is:

```
SALARY REPORT
FOR COMPANY EMPLOYEES

<table>
<thead>
<tr>
<th>DEPARTMENT</th>
<th>SALARY  EMP  ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS</td>
<td>$8,650.00  543729165</td>
</tr>
<tr>
<td>MIS</td>
<td>$9,000.00  543729165</td>
</tr>
<tr>
<td>MIS</td>
<td>$13,200.00 112847612</td>
</tr>
<tr>
<td>MIS</td>
<td>$17,750.00 117593129</td>
</tr>
<tr>
<td>MIS</td>
<td>$18,480.00 117593129</td>
</tr>
<tr>
<td>MIS</td>
<td>$18,480.00 219984371</td>
</tr>
<tr>
<td>MIS</td>
<td>$21,780.00 326179357</td>
</tr>
<tr>
<td>MIS</td>
<td>$25,775.00 818592173</td>
</tr>
<tr>
<td>MIS</td>
<td>$27,062.00 818592173</td>
</tr>
<tr>
<td>MIS</td>
<td><strong>SALARY TOTAL: $150,177.00</strong></td>
</tr>
</tbody>
</table>

| PRODUCTION | $9,050.00  119265415 |
| PRODUCTION | $9,500.00  119265415 |
| PRODUCTION | $10,000.00 071382660 |
| PRODUCTION | $11,000.00 071382660 |
| PRODUCTION | $15,000.00 451123478 |
| PRODUCTION | $16,100.00 451123478 |
| PRODUCTION | $21,120.00 126724188 |
| PRODUCTION | $24,420.00 123764317 |
| PRODUCTION | $26,862.00 123764317 |
| PRODUCTION | $29,700.00 119329144 |
| PRODUCTION | **SALARY TOTAL: $172,752.00** |
```

FOR INTERNAL USE ONLY

WebFOCUS adds the colspan attribute to the <td> tags for the heading rows in the heading table. There are three columns in the output, so colspan=3:

```
<td NOWRAP colspan=3 align=CENTE
<br><strong><font size=1>SALARY REPORT</font></strong></td>
</tr>
```
Summarizing Report or Graph Information

A WebFOCUS StyleSheet supports a SUMMARY attribute for reports and graphs. This attribute maps to the HTML <table SUMMARY> tag in the HTML report output. A description of the report or graph is placed into a summary object inside the HTML table in the source code.

Including a description of a report or graph supports accessibility.

Syntax: How to Summarize Report or Graph Information

Add a SUMMARY declaration to the WebFOCUS StyleSheet:

```plaintext
SUMMARY='description'
```

where:

- `description` Is the description of the report or graph. Enclose the description in single quotation marks (''). The length can be no longer than 500 characters. SUMMARY is also supported for reports in which SET ACCESSHTML is OFF.

Example: Summarizing Report Information

The SUMMARY attribute that describes report information appears in boldface:

```plaintext
TABLE FILE GGSALES
SUM UNITS DOLLARS
BY CATEGORY BY PRODUCT
BY REGION
WHERE CATEGORY EQ 'Food';
WHERE REGION EQ 'Midwest' OR 'Northeast';
ON TABLE SET PAGE-NUM OFF
ON TABLE SET ACCESSHTML 508
ON TABLE SET BYDISPLAY ON
ON TABLE SET STYLE *
SUMMARY="This report lists food product sales in the Midwest and Northeast',
$ TYPE=REPORT, GRID=OFF,$
ENDSTYLE
END
```

The text assigned in the SUMMARY StyleSheet attribute is placed in the HTML SUMMARY attribute for the HTML <table> tag.

```html
<table cellpadding=1 style='margin-left:0pt;margin-right:0pt; margin-top:0pt;margin-bottom:0pt' class='IBI_HEADALIGN_NONE'
SUMMARY="This report lists food product sales in the Midwest and Northeast">
```
The report is:

<table>
<thead>
<tr>
<th>Category</th>
<th>Product</th>
<th>Region</th>
<th>Unit Sales</th>
<th>Dollar Sales</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food</td>
<td>Biscotti</td>
<td>Midwest</td>
<td>86105</td>
<td>1091727</td>
</tr>
<tr>
<td>Food</td>
<td>Biscotti</td>
<td>Northeast</td>
<td>145242</td>
<td>1802005</td>
</tr>
<tr>
<td>Food</td>
<td>Croissant</td>
<td>Midwest</td>
<td>139182</td>
<td>1751124</td>
</tr>
<tr>
<td>Food</td>
<td>Croissant</td>
<td>Northeast</td>
<td>137394</td>
<td>1670818</td>
</tr>
<tr>
<td>Food</td>
<td>Scone</td>
<td>Midwest</td>
<td>116127</td>
<td>1495420</td>
</tr>
<tr>
<td>Food</td>
<td>Scone</td>
<td>Northeast</td>
<td>70732</td>
<td>907171</td>
</tr>
</tbody>
</table>

**Example: Summarizing Graph Information**

WebFOCUS JavaScript® Chart Engine (FORMAT JSCHART) draws a chart in a web browser (HTML environment) using a WebFOCUS GRAPH request. In order to meet accessibility standards, there must be alternative text that provides a textual alternative to non-text content in web pages. If a report has a chart and the report needs to be 508 compliant, there should also be a tabular report with the data being summarized by the chart.

In the following graph request, the TITLETEXT appears in the title bar of the browser, HEADING appears above the chart, and the SUMMARY text is included in the HTML source of the chart in the acceptability tag. The text in the title bar, heading, and accessibility tag are read by the screen reader. The HEADING, TITLETEXT, and SUMMARY syntax appears in boldface:

```graph
GRAPH FILE GGSALES
HEADING
"Product Unit and Dollar Sales"
SUM UNITS DOLLARS
BY PRODUCT
ON GRAPH SET ACCESSHTML 508
ON GRAPH PCHOLD FORMAT JSCHART
ON GRAPH SET STYLE *
TYPE=REPORT, TITLETEXT='Product Unit and Dollar Sales',
ORIENTATION=LANDSCAPE,$
SUMMARY='This graph shows unit and dollar sales for all products',$
ENDSTYLE
END
```

The styling TITLETEXT line produces the following HTML source:

```html
<!DOCTYPE html>
<html lang="en-US">
<HEAD>
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<TITLE>Product Unit and Dollar Sales</TITLE>
.
.
</HEAD>
```
Including a heading in the GRAPH request is in the body of the HTML source:

```html
<BODY BGCOLOR="ffffff">
<FONT SIZE=5 FACE="Times New Roman"><B>
Product&nbsp;Unit&nbsp;and&nbsp;Dollar&nbsp;Sales</B></FONT><BR>
</BODY></FONT></BR>
```

The SUMMARY attribute produces the following HTML source:

```javascript
chart.set({
  // The following properties were generated by the Reporting Server:
  accessibility: { title: 'This graph shows unit and dollar sales for all products'}});
```

The graph is:

**Product Unit and Dollar Sales**

![Chart showing product unit and dollar sales](chart.png)

**Describing Drill-Down Information**

You can provide a description of a drill-down report using the ALT attribute in a WebFOCUS StyleSheet. In the HTML report output, the description is placed in the HTML title attribute on the <href> tag for the drill-down hyperlink.

Including a description of the detail component of a drill-down report supports accessibility.
Syntax: How to Describe Drill-Down Information

ALT='description'

where:

description

Is the description of the drill-down information in a report. Enclose the description in single quotation marks ('). The length can be no longer than 256 characters. ALT is also supported for reports in which SET ACCESSHTML is OFF.

Example: Describing Drill-Down Information

The ALT attribute that maps to the drill-down hyperlink of a report appears in boldface:

TABLE FILE GGSALES
SUM UNITS DOLLARS
BY CATEGORY
HEADING
"* Click category to see product and regional breakdowns."
ON TABLE SET PAGE-NUM OFF
ON TABLE SET ACCESSHTML 508
ON TABLE SET BYDISPLAY ON
ON TABLE SET STYLE *
TYPE=REPORT, GRID=OFF,$
TYPE=DATA, COLUMN=CATEGORY, FOCEXEC=REGSALES (TYPE=CATEGORY),
ALT='This will run a report that shows product sales by region',$
ENDSTYLE
FOOTING
"This report was created on &DATE"
END

The HTML source code is:

```
<td NOWRAP>
<a href="/ibi_apps/WFServlet?IBIF_webapp=/ibi_apps&IBIC_server=EDASERVE
&IBIWF_msgviewer=OFF&IBIMR_drill=IBFS,RUNFEX,IBIF_ex,
true&IBIF_ex=IBFS:/WFC/REGSALES&CLICKED_ON=&TYPE=Coffee" title="This will run a report that shows product sales by region">Coffee</a>
</td>
```
Adding Descriptive Text to an Image

The report is:

* Click category to see product and regional breakdowns.

<table>
<thead>
<tr>
<th>Category</th>
<th>Unit Sales</th>
<th>Dollar Sales</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coffee</td>
<td>1376266</td>
<td>17231455</td>
</tr>
<tr>
<td>Food</td>
<td>1384845</td>
<td>17229333</td>
</tr>
<tr>
<td>Gifts</td>
<td>This will run a report that shows product sales by region</td>
<td></td>
</tr>
</tbody>
</table>

This report was created on 09/11/17

Adding Descriptive Text to an Image

The ALT attribute in a WebFOCUS StyleSheet adds descriptive text to an embedded image in an HTML report. The ALT attribute in the StyleSheet generates an HTML ALT attribute on the <IMG> tag.

Including a description of an image supports accessibility.

Microsoft® Internet Explorer® shows the descriptive text in a box when you hover the mouse over the image.

By default, the browser displays the descriptive text if the image loader is turned off or if the browser does not display images.

Syntax: How to Add Descriptive Text to an Image

ALT='description'

where:

description

Is a brief description of the image. Enclose the description in single quotation marks (''). The length can be no longer than 256 characters. ALT is also supported for reports in which SET ACCESSHTML is OFF.
**Example:** Adding Descriptive Text to an Image

This request adds the Information Builders logo to a report footing. It uses the WebFOCUS StyleSheet ALT attribute to add descriptive text (Information Builders logo) that identifies the image.

```
TABLE FILE GGORDER
SUM QUANTITY AS 'Ordered Units'
BY PRODUCT
ON TABLE SUBHEAD
"PRODUCTS ORDERED"
FOOTING
" "
ON TABLE SET PAGE-NUM OFF
ON TABLE SET ACCESSHTML 508
ON TABLE SET BYDISPLAY ON
ON TABLE SET STYLE *
TYPE=REPORT, GRID=OFF,$
TYPE=FOOTING, IMAGE=/ibi_html/iblogo.gif, ALT='Information Builders logo',$
ENDSTYLE
END
```

**Note:** If the request is located in the WebFOCUS repository and the WebFOCUS Client *Upload Images to be Embedded in Reports* Applications setting is selected, you need to either:

- Include the -MRNOEDIT command at the beginning of the line that references the IMAGE not located in the WebFOCUS repository.
- Include the fully qualified path in the IMAGE parameter.

The WebFOCUS Client *Upload Images to be Embedded in Reports* Applications setting specifies whether to upload Repository images to the Reporting Server for embedding in reports and HTML pages. The default is to upload Repository images. For more information on the *Upload Images to be Embedded in Reports* Applications setting, see the *Security and Administration* manual.

The -MRNOEDIT command instructs the WebFOCUS Client to not process the line of code. For more information on the -MRNOEDIT command, see the *Business Intelligence Portal* manual.
When you run the request, the image displays below the report data, as shown in the following image.

**PRODUCTS ORDERED**

<table>
<thead>
<tr>
<th>Product</th>
<th>Ordered Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biscotti</td>
<td>136045</td>
</tr>
<tr>
<td>Coffee Grinder</td>
<td>58703</td>
</tr>
<tr>
<td>Coffee Pot</td>
<td>61982</td>
</tr>
<tr>
<td>Croissant</td>
<td>204776</td>
</tr>
<tr>
<td>French Roast</td>
<td>285689</td>
</tr>
<tr>
<td>Hazelnut</td>
<td>100427</td>
</tr>
<tr>
<td>Kona</td>
<td>61498</td>
</tr>
<tr>
<td>Mug</td>
<td>117186</td>
</tr>
<tr>
<td>Scone</td>
<td>108359</td>
</tr>
<tr>
<td>Thermos</td>
<td>61778</td>
</tr>
</tbody>
</table>

When you hover the mouse over the image, the descriptive text displays in a box if your browser image loader is turned off or if the browser does not display images.

WebFOCUS generates the following HTML code for the image:

```html
<IMG SRC="/ibi_html/ibilogo.gif"
ALT="Information Builders logo">
```

**On Demand Paging (ODP) WebViewer Support**

The On Demand Paging report viewer (WebViewer) is Section 508 compliant. It presents all reports, both standard ODP and Section 508 compliant reports, using page-by-page navigation as defined by the physical pages within the report. Page breaks are defined through a combination of the lines per page setting (SET LINES=n) and the sort field breaks in the report request (ON sortfield PAGE-BREAK). When both options are used together, a new page break is generated when either the defined lines per page is reached or a new sort value is encountered.

Report requests for HTML Section 508 compliant reports that do not have the On Demand Paging (ODP) viewer enabled ignore sort field page breaks (ON *fieldname* PAGE-BREAK). Report requests that send the output to the WebViewer present page breaks in a compliant manner.
Generating Section 508 Compliant ODP Output

To qualify as an ODP Section 508 compliant report, the procedure must contain commands to enable the WebViewer and to make the output Section 508 compliant.

Issue the following command to generate Section 508 compliant output either for all requests or for a single request:

```
SET ACCESSHTML = 508 or ON TABLE SET ACCESSHTML 508
```

In releases prior to Release 8.2 Version 02, the SET BYDISPLAY=ON or ON TABLE SET BYDISPLAY command is required to produce a value in each cell for sort (BY) fields.

For upward compatibility for earlier 7.7.x releases, the following legacy commands are still available:

```
SET ACCESSIBLE = 508 or ON TABLE SET ACCESSIBLE 508
```

Issue the following command to send report output to the ODP WebViewer, either for all requests or for a single request:

```
SET WEBVIEWER = ON or ON TABLE SET WEBVIEWER ON
```

Reference:  Screen Reader Settings for Use With the WebViewer

In order for screen readers like JAWS to work properly with the WebViewer, the following settings must be in effect. For more information about setting these options, refer to the documentation for JAWS or for the screen reader you use:

- Virtual PC Cursor. Use Virtual PC Cursor must be checked.
- Forms Mode Auto Off. Forms Mode Auto Off must be checked.
- Graphics Setting. Use Alt must be checked.
- Button Text Options. Use Title must be checked.

Page Breaks for Section 508 Compliant WebViewer Output

For output designated as accessible and ODP enabled, page breaks defined in the report are implemented and respected. The ODP WebViewer presents the report one page at a time using the defined page breaks as follows:

- Each time the defined LINE limit is reached, a physical page break is inserted.
- Each time a new value is encountered for the designated sort field, a physical page break is inserted. Note that page breaks generated by sort field breaks can create pages shorter than the designated LINE limit.
Standard page break functionality, including the insertion of page headings and footings, are implemented at each physical page break. No additional syntax is required to implement this feature.

**Limitation Using the SHOW ALL Button in the WebViewer**

Within the ODP WebViewer, the SHOW ALL button presents the report as a continuous document without ODP navigation controls. In Section 508 mode, the SHOW ALL functionality presents the report as a single continuous HTML page, repeating the headings and footings for each designated physical page. These repetitive elements make the report non-compliant.

When a Section 508 accessible report with sort field page breaks is opened in the ODP WebViewer, the ALT tag associated with the SHOW ALL button informs you that this functionality may make access through a reader difficult. This information will be available in the tooltip when you hover the mouse over the button and as part of the text read by the accessibility readers.

**Example:** Using the SHOW ALL Button in the WebViewer

The following report procedure enables the WebViewer and contains a sort field page break on Region.

```
TABLE FILE GGSALES
SUM UNITS DOLLARS
BY REGION
BY CATEGORY
BY PRODUCT
ON REGION PAGE-BREAK SUB-TOTAL
ON TABLE SET PAGE-NUM OFF
ON TABLE SET ACCESSHTML 508
ON TABLE SET BYDISPLAY ON
ON TABLE SET WEBVIEWER ON
ON TABLE SET STYLE *
TYPE=REPORT, GRID=OFF,$
ENDSTYLE
END
```
Accessibility Limitations

This topic describes limitations for accessibility.

Reports using the following elements are not accessible:

- Reports that do not contain a data value in each cell of the report (BYDISPLAY=OFF).
- ACROSS and OVER reports.
- Reports that generate FORMAT HTMTable output.
- Reports using the HFREEZE StyleSheet attribute.
- Accordion reports.
- Financial Modeling Language (FML).
- Table of Contents.
- OLAP.
- Webviewer (On Demand Paging) SHOW ALL button.
In addition, text included or designed in HEADING, FOOTING, SUBHEAD, SUBFOOT, RECAP, SUMMARIZE, and RECOMPUTE commands do not generate row header tags.

**ACROSS and OVER Reports**

Reports that use the ACROSS sort phrase and OVER sort phrase are not accessible, so you must use the BY sort phrase.

For more information about the ACROSS, OVER, and BY phrases, see the *Creating Reports With WebFOCUS Language* manual.

**Defining a Scrollable Area in a Report: HFREEZE**

The HFREEZE attribute in a StyleSheet enables you to freeze headings and/or footings, creating a scrollable area in the body of the report. This attribute does not create accessible report output and is ignored in a report that sets the ACCESSHTML parameter to 508.

**FORMAT HTMTABLE Report Output**

In requests using FORMAT HTMTABLE, the headings are not aligned properly with the body. WebFOCUS HTML Section 508 accessible reports include JavaScript that does the width calculation and alignment processing and ties it to the `<body>` tag of the HTML report output. FORMAT HTMTABLE produces only a table, not a complete HTML form, so there is no `<body>` tag.