Mobile Reporting at University of Central Florida

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University of Central Florida (UCF)
The EDS Office

- EDS - Enterprise Decision Support
- Unit of Institutional Knowledge Management (IKM)
- Data Integration Services
- Business Intelligence & Information Portal
- Enterprise Data Warehouse
- Support Decision-making and Planning
- Over 30 million records of student data
SAS® 9.2 software used during the development of reports

- SAS® Web Report Studio 4.3
- SAS® Information Map Studio 4.2
- SAS® Enterprise Guide® 4.3
- SAS® Stored Processes
Development Limitations

• **Design:** Metrics and KPIs

• **Technical:** Internet browsers

  ![Internet browsers logos](image)

• **Technical:** Developer’s environment

  ![Operating systems and software logos](image)

• **Technical:** Compatibility issues

  – SAS technical bulletins **TS2M2 TS2M3**
SAS Web Report Studio 4.3 Issues

• Hot Fix Downloads and Issue(s) Addressed

• Issues related to text boxes:
  – Problem Note [42499](#)
  – Problem Note [42466](#)
  – Problem Note [41486](#)

• It is not the same to create a text box using FF3 or IE7
  – color in PDF issue
Design workaround

• Issues when designing in **IE8 as IE7**: including IE caching

• **Firefox 3**: released on June 17, 2008
  – support ended on March 30, 2010 (rev19).

• Text boxes issues while using **Firefox 3.6 and above**

• **IE Tab 2** (free add-on) allows to use IE to display web pages in a tab within Firefox
iPad Limitations

- **Design**: provide the RIGHT answer in one screen

- **Technical**: Internet browsers

- Current platform compatibility issues: Safari vs SAS WRS and no full screen capability as default

- Physical dimensions and resolution
Mobile Reports

Click on the buttons below to access other reports.
Mobile Reports

Actuaries of expenditures and other general ledger journals are added nightly as they post to the general ledger. (CBA Dashboard, August 16, 2013 2:28:50 PM EDT)
Mobile Reports
Limitations and Solutions

- Current SAS platform
- Browser experience
- Design challenges
- Technical restrictions
- iPad dimension / resolution
- iPad browser experience: compatible and full screen
- Results: Mobile Reports
Questions
Recommended Reading

• *Business Dashboards*. Wiley. 2009
• *Information Dashboard Design*. Analytics Press. 2013
Your comments and questions are valued and encouraged. Contact the author at:

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SAS® 9.2 (TS2M2) Support for Web Browsers and Plug-Ins

This page contains the minimum version requirements of Web browser software for use with the second maintenance release for SAS 9.2 (TS2M2). It is possible to use updated versions of third-party software listed below. See SAS® Third-Party Software Requirements - Baseline and Higher Support for more details.

- Web Browsers Last Updated: February 15, 2012
- Adobe Flash Player

Web Browsers

The table below lists the Web browsers that are supported for use with SAS Foundation software and SAS client applications.

For the UNIX, VMS, and MVS platforms, SAS 9.2 Foundation software assumes that users will use the Remote Browser Server to display Help and Online Documentation and to view ODS HTML output. The Remote Browser Server runs on the user’s Windows or Linux desktop machine and uses one of the browsers listed in the table below to display output.

For the Windows platforms, SAS 9.2 Foundation uses Microsoft Internet Explorer or Firefox for views of Web pages and can use either Microsoft Internet Explorer, Firefox, or an embedded browser to display ODS results.

You can download the Remote Browser Server from the Software Downloads page.

<table>
<thead>
<tr>
<th>Web Browser</th>
<th>Platform</th>
<th>Version</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internet Explorer</td>
<td>Windows XP SP2 (32-bit or 64-bit)</td>
<td>6.0 (5.2900.2180)</td>
<td>Only the 32-bit version of the browser is supported.</td>
</tr>
<tr>
<td>Internet Explorer</td>
<td>Windows Server 2003 (32-bit, 64-bit)</td>
<td>8.0 (5.2800.0000)</td>
<td>Only the 32-bit version of the browser is supported.</td>
</tr>
<tr>
<td>Internet Explorer</td>
<td>Windows XP SP2 (32-bit or 64-bit)</td>
<td>7.0</td>
<td>Only the 32-bit version of the browser is supported.</td>
</tr>
<tr>
<td>Internet Explorer</td>
<td>Windows Vista (32-bit or 64-bit)</td>
<td>7.0</td>
<td>Only the 32-bit version of the browser is supported.</td>
</tr>
<tr>
<td>Firefox</td>
<td>Linux 32-bit (x86)</td>
<td>1.0.11</td>
<td>Only the 32-bit version of the browser is supported. Click Download in the Linux column. Only the English version has been tested. This link downloads a .tgz compressed tarball. Extract the tarball using the tar -xvf command in the directory where you want to install Firefox. This process creates a /usr/local directory in that directory.</td>
</tr>
<tr>
<td>Firefox</td>
<td>Windows XP SP2 (32-bit or 64-bit)</td>
<td>1.0.11 and 3.0.6</td>
<td>Only the 32-bit version of the browser is supported.</td>
</tr>
<tr>
<td>Firefox</td>
<td>Windows Vista (32-bit or 64-bit)</td>
<td>1.0.11 and 3.0.6</td>
<td>Only the 32-bit version of the browser is supported.</td>
</tr>
</tbody>
</table>

Adobe Flash Player

Some SAS Web applications use Adobe Flash Player to provide interactive functionality. The table below shows the required version of the Adobe Flash Player.

Note: It is not necessary to install the Adobe Flash Player on client machines in advance. If the Adobe Flash Player is not already installed, and you access a SAS Web application that uses Flash, your browser will prompt you to install it.

<table>
<thead>
<tr>
<th>Product</th>
<th>Version</th>
<th>Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adobe Flash Player</td>
<td>9</td>
<td>Download</td>
</tr>
</tbody>
</table>
**SAS® 9.2 (TS2M3) Support for Web Browsers and Plug-Ins**

This page contains the minimum version requirements of Web browser software for use with the third maintenance release for SAS® 9.2 (TS2M3), beginning with version 10.4.0.

Note: The minimum version requirements for Web browser software for use with SAS 9.2 (TS2M3) up through version 10.4.0 are the same as for the second maintenance release for SAS 9.2 (TS2M2).

It is possible to use updated versions of the third party software listed below. See SAS® Third-Party Software Requirements: Baseline and Higher Support for more details.

* Web Browsers Last Updated: February 16, 2012
* Adobe Flash Player

**Web Browsers**

The table below lists the Web browsers that are supported for use with SAS® Foundation software and SAS client applications.

For the UNIX, VMS, and MVS platforms, SAS 9.2 Foundation assumes that users will use the Remote Browser Server to display Help and Online Documentation and to view PDF HTML output. The Remote Browser Server runs on the users Windows or UNIX desktop machine and uses one of the browsers listed in the table below to display output.

For the Windows platforms, SAS 9.2 Foundation uses Microsoft Internet Explorer or Firefox for reference and can use either Microsoft Internet Explorer, Firefox, or an embedded browser to display ODS results.

You can download the Remote Browser Server from the Software Downloads page.

<table>
<thead>
<tr>
<th>Web Browser</th>
<th>Platforms</th>
<th>Version</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internet Explorer</td>
<td>Windows XP SP2 (32-bit or 64-bit)</td>
<td>5.0 (0.2903.2180)</td>
<td>Only the 32-bit version of the browser is supported.</td>
</tr>
<tr>
<td>Internet Explorer</td>
<td>Windows Server 2003 (32-bit, 64-bit)</td>
<td>5.0 (0.3790.0000)</td>
<td>Only the 32-bit version of the browser is supported.</td>
</tr>
<tr>
<td>Internet Explorer</td>
<td>Windows XP SP2 (32-bit or 64-bit)</td>
<td>7 and 8</td>
<td>Only the 32-bit version of the browser is supported.</td>
</tr>
<tr>
<td>Internet Explorer</td>
<td>Windows Server 2003 (32-bit, 64-bit)</td>
<td>7 and 8</td>
<td>Only the 32-bit version of the browser is supported.</td>
</tr>
<tr>
<td>Internet Explorer</td>
<td>Windows Vista (32-bit or 64-bit)</td>
<td>7 and 8</td>
<td>Sometimes Internet Explorer does not render long lines of text correctly on the View tab of a Web report, such as a SAS® Web Report Studio Report. If this is the case, resize the window width to resolve the issue. For an example of this text-rendering issue, view the sample display.</td>
</tr>
<tr>
<td>Internet Explorer</td>
<td>Windows Server 2008 (32-bit or 64-bit)</td>
<td>7 and 8</td>
<td>Only the 32-bit version of the browser is supported.</td>
</tr>
<tr>
<td>Internet Explorer</td>
<td>Windows 7 (32-bit or 64-bit)</td>
<td>8</td>
<td>Only the 32-bit version of the browser is supported.</td>
</tr>
<tr>
<td>Internet Explorer</td>
<td>Windows Server 2008 R2</td>
<td>8</td>
<td>Only the 32-bit version of the browser is supported.</td>
</tr>
<tr>
<td>Internet Explorer</td>
<td>Windows Vista and Windows 7 (for both 32-bit and 64-bit)</td>
<td>9</td>
<td>Only the 32-bit version of the browser is supported.</td>
</tr>
</tbody>
</table>

Internet Explorer 8 is supported in the third maintenance release for SAS 9.2 (TS2M3) and in SAS® Enterprise BI 4.3. To get this support, you must install a series of hot fixes, as described in SAS Note 45569.

**Firefox**

<table>
<thead>
<tr>
<th>Product</th>
<th>Version</th>
<th>Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adobe Flash Player</td>
<td>10.3.22.18</td>
<td>Download</td>
</tr>
</tbody>
</table>
Problem Note 42499: “ERROR: sas_RichTextEditField();” might occur in SAS® Web Report Studio when editing a text object with dynamic text.

When SAS Web Report Studio is running in Microsoft Internet Explorer, one of the following errors might occur when editing a text object that contains dynamic text.

The page at http://sasbi.demo.sas.com:8080 says:

![ERROR: sas_RichTextEditField(); expected a text node](image)

Message from webpage:

![ERROR: sas_RichTextEditField.insertTextAtProxySelection(); cannot find text proxy after insertHtml()](image)

This problem is most likely to occur if you edit the text object, delete the text, and then hit the space bar.

To circumvent the problem, add an empty space after the dynamic text before you delete the text.
Problem Note 42466: “ERROR: sas_RichTextEditField(): expected a text node” might occur in SAS® Web Report Studio when editing a text object.

When SAS Web Report Studio is running in Mozilla Firefox 3.6, the following error might occur when editing a text object.

The page at http://sasbi.demo.sas.com:8080 says:

![Error message](image)

This problem is most likely to occur if you remove all of the text, and then press the space bar.

Click the Hot Fix tab in this note to access the hot fix for this issue.
Problem Note 41486

Exception parsing at unknown location cause: null when attempting to save text in SAS® Web Report Studio

In SAS Web Report Studio, if your Text object includes the letters s-c-i-p-t, either alone or as part of a word such as Description, you will see the following error when you click OK in the dialog box.

Exception parsing at unknown location cause: null

The error occurs for all browsers, and it occurs regardless of whether the letters are all lowercase, all uppercase, or mixed case. There is no workaround that will enable you to include the letters s-c-i-p-t as part of the text.

Operating System and Release Information

<table>
<thead>
<tr>
<th>Product Family</th>
<th>Product</th>
<th>System</th>
<th>Product Release</th>
<th>SAS Release</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS System</td>
<td>SAS Web Report Studio</td>
<td>z/OS</td>
<td>4.2</td>
<td>9.2 TS2M0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Microsoft® Windows® for x86</td>
<td>4.2</td>
<td>9.2 TS2M0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Microsoft Windows Server 2003 Datacenter Edition</td>
<td>4.2</td>
<td>9.2 TS2M0</td>
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<tr>
<td></td>
<td></td>
<td>Microsoft Windows Server 2003 Enterprise Edition</td>
<td>4.2</td>
<td>9.2 TS2M0</td>
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<tr>
<td></td>
<td></td>
<td>Microsoft Windows Server 2003 for x86</td>
<td>4.2</td>
<td>9.2 TS2M0</td>
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<tr>
<td></td>
<td></td>
<td>Microsoft Windows Server 2008 for x86</td>
<td>4.2</td>
<td>9.2 TS2M0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Microsoft Windows XP Professional</td>
<td>4.2</td>
<td>9.2 TS2M0</td>
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<tr>
<td></td>
<td></td>
<td>Windows Vista</td>
<td>4.2</td>
<td>9.2 TS2M0</td>
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<td>Windows Vista for x86</td>
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<td></td>
<td>64-bit Enabled AIX</td>
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<td>9.2 TS2M0</td>
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<td></td>
<td>64-bit Enabled Solaris</td>
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<td>9.2 TS2M0</td>
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<td></td>
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<td>9.2 TS2M0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Linux for x86</td>
<td>4.2</td>
<td>9.2 TS2M0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Solaris for x86</td>
<td>4.2</td>
<td>9.2 TS2M0</td>
</tr>
</tbody>
</table>

* For software releases that are not yet generally available, the Fixed Release is the software release in which the problem is planned to be fixed.