



EXPORTING MULTIPLE PAGES DATA IN MS EXCEL FORMAT IN HATS V7.5 (Server Side Solution)

Background

Sometimes you might come across a requirement to display or export data of multiple screens, which is rendered on a single web page in your HATS Application using the **Screen Combination** functionality, in Microsoft Excel (.xls) format. Unfortunately Rational HATS does not offer this type of functionality in screen combination. Since it was a defying task to make it doable, we'll discuss in this paper in a stepladder how to achieve this functionality.

Solution

Initially, we will create a scrollable custom widget component for holding the data from multiple pages. We will create a table having rows & column on basis of CSS (Cascading Style Sheet) and each component should be handled in specified rows & column of table as shown below in the snapshot below:

```
//Opening <TR> Tag to create a new row with CSS Class
rowBuffer.append("<TR CLASS=\"" + oddEven + "\"> ");

// Parsing Columns for every row
for (int cCol=0; cCol<rccells[cRow].length; cCol++){

    //Opening <TD> Tag for every TD/Cell Element of Table
    rowBuffer.append("<TD CLASS=\"" WIDTH=\"" align=\"center\"> ");

    //Extracting the list of data elements in every cell
    FieldComponentElement[] rctdcell;
    int cellLenght = 0;
```

After implementing, the user will have the final shape of our scrollable custom widget as given below:



Boats

Your search parameters

Type P=Powered, S=Sailing, T=Tug, C=Commercial, A=All
 Length (feet) feet to start from
 Year built year to start from

	Type	Model	Feet	Year	US\$
<input type="checkbox"/>	A	Hangar	20	1940	100,000,000
<input type="checkbox"/>	A	Spandau1	72	2000	100,000,000
<input type="checkbox"/>	A	MOLSLINIEN	300	1999	100,000,000
<input type="checkbox"/>	A	Spandau	720	1999	100,000,000
<input type="checkbox"/>	C	Poole Boat Co Aluminum	80	1979	1,000,000
<input type="checkbox"/>	P	Mako Sportfisher	19	1989	13,000
<input type="checkbox"/>	P	Carver Santa Cruz	28	1978	23,900

In the custom widget, auto-generate the JavaScript function to generate an HTML Pop-Up Window on-the-fly [during transformation].

```
<script type="text/javascript">
function excelGen(){
var table_content = /* Place the Table Code [from Widget] in this area */
var submit_script_content = '<SCRIPT LANGUAGE="JavaScript"> function submitForm() { document.RC_Form.submit(); } </SCRIPT>';
```

User will click a link/button on the top of custom widget that would create a pop-up window. That pop-up window would be filled with Table content and will auto-submit to a JSP page at Server. This JSP page would get populated with Table content (containing the complete data of multiple pages) and will return an Excel Sheet. If Excel is not installed at client machine, then it would ask for save option, or user can also open the document [if Excel is installed at client machine]. Excel installation is not mandatory at client or server side. Moreover, it does not require any Active-X Object Support at client browser, and all Excel requests would be entertained at server. Here a snapshot of the source code is given:

```
<%@ page contentType="application/vnd.ms-excel" %>
<%-- Set the content disposition header --%>
<% response.reset(); %>
<% response.setContentType("application/vnd.ms-excel"); %>
```

After the user clicks the button multiple screens of data, which is rendered on a single web page is exported in excel (.xls) format, as shown in the snapshot below:



Boats


Your search parameters


Type: A P=Powered, S=Sailing, T=Tug, C=Commercial, A=All
Length (feet): feet to start from
Year built: year to start from

	Type	Model	Feet	Year	US\$	
<input type="checkbox"/>	A	Hangar		20	1940	100,000,000
<input type="checkbox"/>	A	Spandau1		72	2000	100,000,000
<input type="checkbox"/>	A	MOLSLINIEN		300	1999	100,000,000
<input type="checkbox"/>	A	Spandau		720	1999	100,000,000
<input type="checkbox"/>	C	Poole Boat Co Aluminum		80	1979	1,000,000
<input type="checkbox"/>	P	Mako Sportfisher		19	1989	13,000
<input type="checkbox"/>	P	Carver Santa Cruz		28	1978	23,900

File Download

Do you want to open or save this file?

 Name: GroupamaSpreadsheet.xls
Type: Microsoft Excel Worksheet, 2.53 KB
From: localhost

 While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not open or save this file. [What's the risk?](#)

Security settings at Browser's level

There are also security settings at the browser level that need to be taken care of:

- Enable prompting for ActiveX control
- Enable automatic prompting for file(s) download
- Enable file download



© Copyright IBM Corporation 2010
IBM Global Services
Route 100
Somers, NY 10589
U.S.A.
Produced in the United States of America
08-10
All Rights Reserved

IBM, the IBM logo, ibm.com, Lotus®, Rational®, Tivoli®, DB2® and WebSphere® are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both. If these and other IBM trademarked terms are marked on their first occurrence in this information with a trademark symbol (® or ™), these symbols indicate U.S. registered or common law trademarks owned by IBM at the time this information was published. Such trademarks may also be registered or common law trademarks in other countries. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at ibm.com/legal/copytrade.shtml Other company, product and service names may be trademarks or service marks of others. The information contained in this documentation is provided for informational purposes only. While efforts were made to verify the completeness and accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind, express or implied. In addition, this information is based on IBM's current product plans and strategy, which are subject to change by IBM without notice. IBM shall not be responsible for any damages arising out of the use of, or otherwise related to, this documentation or any other documentation. Nothing contained in this documentation is intended to, nor shall have the effect of, creating any warranties or representations from IBM (or its suppliers or licensors), or altering the terms and conditions of the applicable license agreement governing the use of IBM software. This document illustrates how one organization uses IBM products. Many factors have contributed to the results and benefits described; IBM does not guarantee comparable results elsewhere.