



IBM e_{server} Sizing Guides

Comprehensive Design Document

Comprehensive Workload Example for IBM iSeries and pSeries Servers



***Version 5.0
May 20, 2016***

Note: This document ***only*** discusses the Comprehensive Workload examples. The IBM Systems Workload Developer download package contains a complete Developer's User Guide that fully describes all features and functions. This User Guide should be your primary reference.

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Overview

The IBM Systems Workload Developer (Developer) program allows you to create Sizing Guides for your sales team, your technical team or your potential customers. The Developer is a robust, full-function tool with the flexibility to develop Sizing Guides ranging from simple one-application-on-one-system guides to complex and comprehensive guides encompassing multiple systems in multiple tiers running multiple application workloads.

The Comprehensive Workload examples are more complex examples that consider both the user's type of connectivity and amount of usage to arrive at a recommended solution.

The Comprehensive Workload Design Document provides text-based examples, calculations and screen shots that allow you to input data into an OEM file to create a Comprehensive Workload Sizing Guide for the iSeries or the pSeries System Server products using the Developer program.

The OEM file is the input file for the Developer. When processed by the Developer, the OEM file can be saved as an output file in an HTML format that can be viewed using a web browser, such as Internet Explorer or Mozilla.

When completed, you can compare your Sizing Guide input (OEM) file or output (HTML) file to the two (2) Comprehensive Workload examples provided with the Developer.

The example files are:

| | |
|----------------------------|--|
| iSeries_Comprehensive.oem | The iSeries input (OEM) file used by the Developer to create an iSeries output (HTML) file. |
| iSeries_Comprehensive.html | The iSeries output (HTML) file created by the Developer that displays iSeries recommended system solutions when viewed with a browser. |
| pSeries_Comprehensive.oem | The pSeries input (OEM) file used by the Developer to create a pSeries output (HTML) file. |
| pSeries_Comprehensive.html | The pSeries output (HTML) file created by the Developer that displays recommended pSeries system solutions when viewed with a browser. |

Company Data

Supply your Company Contact Information.

Please note that your Company Contact Information will become active when you create a Sizing Guide output (HTML) file using the Developer program. Therefore, the Sizing Guide HTML file that you create will link to your Company's URL and any associated webpages that you have input.

Company ABC is a fictitious company. We have used the following Company ABC information for demonstration purposes within the Comprehensive Workload example files:

Company Name..... Company ABC

Company URL.....

<http://www.developer.ibm.com/graphics/estimator/HTML/abc-co-info.html>

(Non-existent url used for demo purpose)

Company Address..... P.O. Box 123
Any City, Any State 123456
United States

Company Telephone Number..... 1-800-123-4567

Company Representative..... John Doe

Representative's E-Mail Address... sizingguide@in.ibm.com

The Comprehensive Workload used in this example consists of running either the Company ABC Employee Portal - Windows Client application or the Company ABC Employee Portal - Web Client application.

Questions to Ask the End-User

The IBM eServer Sizing Guides Developer (Developer) program allows you to create Sizing Guides for your sales team, your technical team or your potential customers. The Developer is a robust, full-function tool with the flexibility to develop Sizing Guides ranging from simple one-application-on-one-system guides to complex and comprehensive guides encompassing multiple systems in multiple tiers running multiple application workloads.

The Comprehensive Workload examples are more complex examples that consider both the user's type of connectivity and amount of usage to arrive at a recommended solution.

However, the Comprehensive Workload examples ask only five questions to arrive at this recommended solution. These questions are:

Question One - Select the Product

| | |
|----------------------|--|
| Question | Select the Company ABC product offering that you plan to implement. |
| Value Range | Radio Button List - can only be one of two choices: Employee Portal - Windows Client Employee Portal - Web Client |
| Default Value | Employee Portal - Windows Client |
| Help Text | Double click for the help link at http://www.companyabc.com/products Company ABC Employee Portal - Windows Client is an enterprise-wide, customer-centric Windows solution allowing a company to gather, integrate and share customer information with anyone in their extended organization, maximizing the efficiency of marketing, sales, service and support. Company ABC Employee Portal- Web Client is an enterprise-wide, customer-centric web solution consolidating customer relationship management functionality with complementary applications and Internet content in a single, customizable web interface, maximizing the efficiency of marketing, sales, service and support. |
| Flyout Text | Choose from one of these products. |
| URL Help Link | http://www.developer.ibm.com/graphics/estimator/HTML/abchelp.html |

(Non-existent url used for demo purpose)

Question Two - Select Disk Storage Protection

| | |
|----------------------|---|
| Question | Raid 5 Support |
| Value Range | None, Mirrored, Raid 5, Default (Raid 5) |
| Default Value | Default (Raid 5) |
| Help Text | Select the amount of disk storage protection required. |
| Flyout Text | Select the amount of disk storage protection desired. Usually RAID-5 is the best. |
| URL Help Link | http://www.developer.ibm.com/graphics/estimator/HTML/abchelp.html |

(Non-existent url used for demo purpose)

Question Three - Select Number of Windows Clients

| | |
|----------------------|--|
| Question | Enter the number of <u>Windows Client</u> users. |
| Value Range | 10 to 2500 |
| Default Value | 100 |
| Help Text | <p>Double click for the help link at http://www.companyabc.com/page1double</p> <p>Enter the expected number of users for this application. This is a number from 10 to 2500.</p> <p>Employee Portal - Windows Client: This is an enterprise-wide, customer-centric Windows solution allowing a company to gather, integrate and share customer information with anyone in their extended organization, maximizing the efficiency of marketing, sales, service and support.</p> |
| Flyout Text | Enter the number of users from 10 to 2500. |
| URL Help Link | http://www.developer.ibm.com/graphics/estimator/HTML/abchelp.html |

(Non-existent url used for demo purpose)

Question Four - Select Number of Web Clients

| | |
|----------------------|---|
| Question | Enter the number of <u>Web Client</u> users. |
| Value Range | 1 to 75 |
| Default Value | 20 |
| Help Text | <p>Double click for the help link at http://www.companyabc.com/page2double</p> <p>Enter the expected number of users for this web application. This is a number from 1 to 75.</p> <p>Employee Portal - Web Client: This is an enterprise-wide, customer-centric web solution consolidating customer-relationship management functionality with complementary applications and Internet content in a single, customizable web interface, maximizing the efficiency of marketing, sales, service and support.</p> |
| Flyout Text | Enter the number of users from 1 to 75 |
| URL Help Link | http://www.developer.ibm.com/graphics/estimator/HTML/abchelp.html |

(Non-existent url used for demo purpose)

Question Five - Select the User Mix

| | |
|-----------------------|--|
| Question | Rate the users of this application by the <u>complexity</u> of the users. |
| Value Range | Slider Question showing the mix of users totaling 100% of all users. 0 to 100 |
| Default Values | 20% - Light Users 70% - Medium Users 10% - Heavy Users |
| Help Text | <p>Double click for the help link at http://www.companyabc.com/page3slider</p> <p>Use the slider to select the percentage of light, medium and heavy users.</p> <p>Light users enter records about once every 5 minutes. Medium users enter records about once every 3 minutes. Heavy users enter records about once every minute.</p> |
| Flyout Text | Select the percentage of users that are light users, medium users and heavy users. |
| URL Help Link | http://www.developer.ibm.com/graphics/estimator/HTML/abchelp.html |

(Non-existent url used for demo purpose)

Measurements

Following are the measurements used for this example. **These are not actual measurements but only examples.** You will need to gather the performance data for your solution.

iSeries Measurements

iSeries - Company ABC Windows Client Measurements

Notes: These example measurements were based on a mix of users.

- 20% are Light Users who enter records about once every 5 minutes.
- 70% are Medium Users who enter records about once every 3 minutes.
- 10% are Heavy Users who enter records about once every minute.

NICPW, ICPW, CIW, MEM, ARMS, STORAGE and DB CAPACITY are the Constant Values contained in the Windows_Client Constant Group.

| Number of Windows Client Users | Model | NICPW | ICPW | MEM (MB) | ARMS | STORAGE (GB) | DB CAPACITY |
|--------------------------------------|---------------|-------|------|-------------|------|-----------------|----------------|
| 1 to 250 | 520-8952/7541 | 250 | 250 | 1024 | 2 | 30 | 4 |
| 251 to 500 | 520-8953/7453 | 500 | 500 | 2048 | 2 | 60 | 6 |
| 501 to 750 | 520-8954/7455 | 750 | 750 | 4096 | 4 | 80 | 7 |
| 751 to 1000 | 520-8955/7457 | 1000 | 1000 | 8192 | 4 | 110 | 8 |
| 1001 to 1500 | 520-8955/7457 | 1500 | 1500 | 16384 | 6 | 160 | 10 |
| 1501 to 2000 | 570-8971/7472 | 2000 | 2000 | 32768 | 8 | 210 | 12 |
| 2000 Plus | 570-8971/747 | 2500 | 2500 | 65536 | 10 | 260 | 15 |

iSeries - Company ABC Web Client Measurements

Notes: These example measurements were based on a mix of users.

- 20% are Light Users who enter records about once every 5 minutes.
- 70% are Medium Users who enter records about once every 3 minutes.
- 10% are Heavy Users who enter records about once every minute.

NICPW, ICPW, CIW, MEM, ARMS, STORAGE and DB CAPACITY are the Constant Values contained in the Web_Client Constant Group.

| Number of Web Client Users | Model | NICPW | ICPW | MEM (MB) | ARMS | STORAGE (GB) | DB CAPACITY |
|----------------------------|---------------|-------|------|----------|------|--------------|-------------|
| 1 to 50 | 520-8952/7541 | 200 | 200 | 2048 | 2 | 60 | 4 |
| 51 to 100 | 520-8953/7453 | 400 | 400 | 4096 | 4 | 120 | 6 |
| 101 to 200 | 520-8954/7455 | 800 | 800 | 8192 | 8 | 240 | 8 |

iSeries - Company ABC User Type Measurements

Note: These example measurements were based on a mix of users.

- 20% are Light Users who enter records about once every 5 minutes.
- 70% are Medium Users who enter records about once every 3 minutes.
- 10% are Heavy Users who enter records about once every minute.

Use the following table, in the calculations, to re-calculate for different user mixes.

| Type of User | NICPW (add) | ICPW (add) | CIW (add) |
|--------------|------------------------------|------------------------------|------------------------------|
| Light | (%Light users – 20%) * 20 | (%Light users – 20%) * 30 | (%Light users – 20%) * 30 |
| Medium | (%Med users – 70%) * 30 | (%Med users – 70%) * 40 | (%Med users – 70%) * 40 |
| Heavy | (%Heavy users – 10%) * 40 | (%Heavy users – 10%) * 50 | (%Heavy users – 10%) * 50 |

pSeries Measurements

pSeries - Company ABC Windows Client Measurements

Notes: These example measurements were based on a mix of users.

- 20% are Light Users who enter records about once every 5 minutes.
- 70% are Medium Users who enter records about once every 3 minutes.
- 10% are Heavy Users who enter records about once every minute.

RPREF, MEM, ARMS and STORAGE are the Constant Values contained in the Windows_Client Constant Group.

| Number of Windows Client Users | Model | RPREF | MEM (MB) | ARMS | STORAGE (GB) |
|---|----------------------|--------------|---------------------|-------------|-------------------------|
| 1 to 250 | p5-520-9111/ 520B | 3.33 | 1024 | 2 | 30 |
| 251 to 500 | p5-520-9111/ 520 | 6.68 | 2048 | 2 | 60 |
| 501 to 750 | p5-520-9117/ 570I | 13.26 | 4096 | 4 | 80 |
| 751 to 1000 | p5-520-9117/ 570J | 32.74 | 8192 | 4 | 110 |
| 1001 to 1500 | p5-520-9117/ 570J | 46.76 | 16394 | 6 | 160 |
| 1501 to 2000 | p5-595-9119/ 595B | 68.78 | 32768 | 8 | 210 |
| 2000 Plus | p5-595-9119/ 595B | 83.41 | 65536 | 10 | 260 |

pSeries - Company ABC Web Client Measurements

Notes: These example measurements were based on a mix of users.

- 20% are Light Users who enter records about once every 5 minutes.
- 70% are Medium Users who enter records about once every 3 minutes.
- 10% are Heavy Users who enter records about once every minute.

RPREF, MEM, ARMS and STORAGE are the Constant Values contained in the Web_Client Constant Group.

| Number of Web Client Users | Model | RPERF | MEM (MB) | ARMS | STORAGE (GB) |
|----------------------------|------------------|-------|----------|------|--------------|
| 1 to 50 | p5-570-9117/570I | 10.55 | 2048 | 2 | 60 |
| 51 to 100 | p5-570-9117/570I | 22.42 | 4096 | 4 | 120 |
| 101 to 200 | p5-570-9117/570J | 45.16 | 8192 | 8 | 240 |

pSeries - Company ABC User Type Measurements

Note: These example measurements were based on a mix of users.

- 20% are Light Users who enter records about once every 5 minutes.
- 70% are Medium Users who enter records about once every 3 minutes.
- 10% are Heavy Users who enter records about once every minute.

Use the following table, in the calculations, to re-calculate for different user mixes.

| Type of User | RPERF (add) |
|--------------|---------------------------|
| Light | (%Light users – 20%) * 20 |
| Medium | (%Med users – 70%) * 30 |
| Heavy | (%Heavy users – 10%) * 40 |

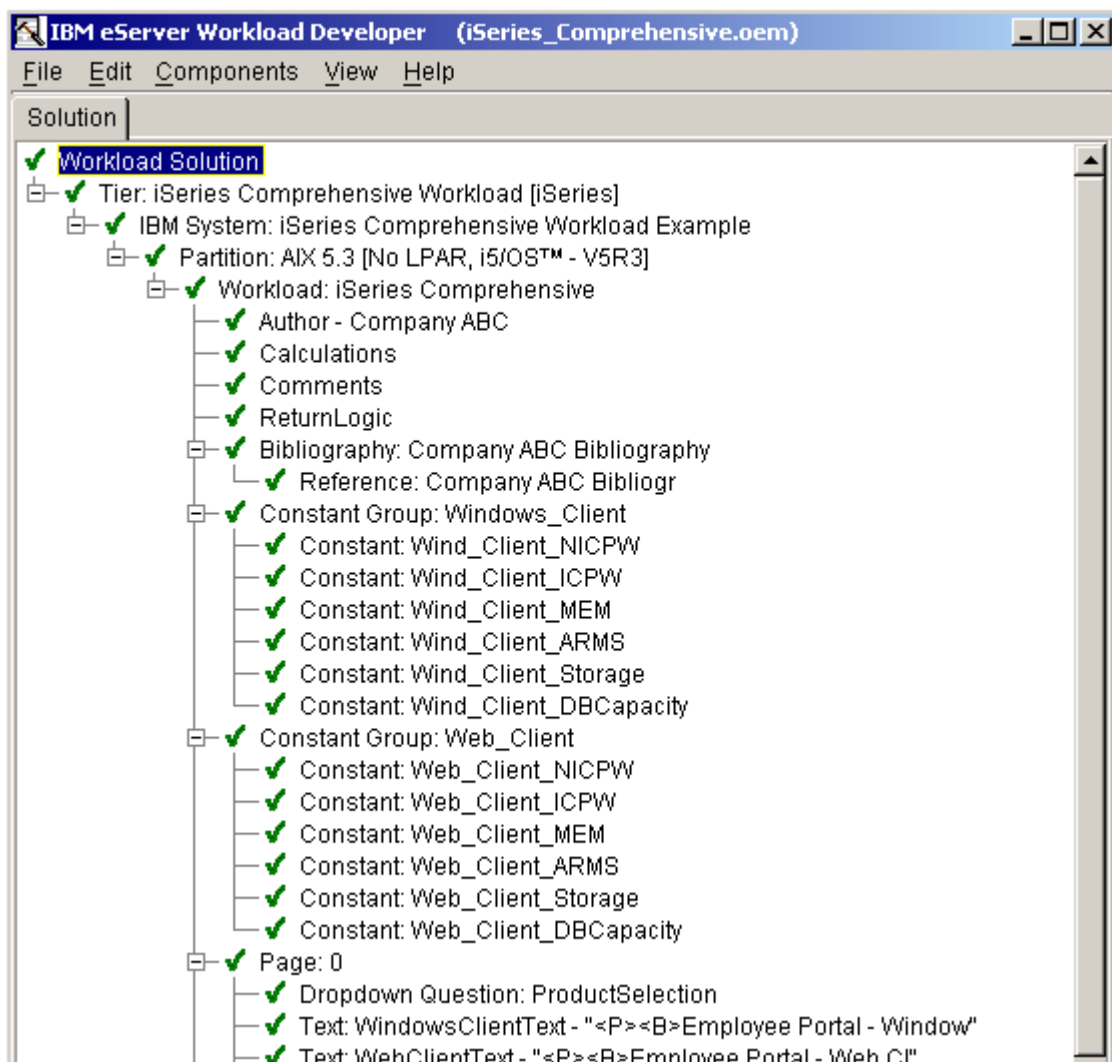
Sizing Guides Developer Component Screen Shots

Screen shots of the components developed in the iSeries Comprehensive Workload follow. These screen shots were taken as the Workload was being created using the IBM eServer Sizing Guides Developer program. The pSeries Comprehensive Workload components are similar, but are not shown.

Please use these screen shots as reference material when you are creating your Workload.

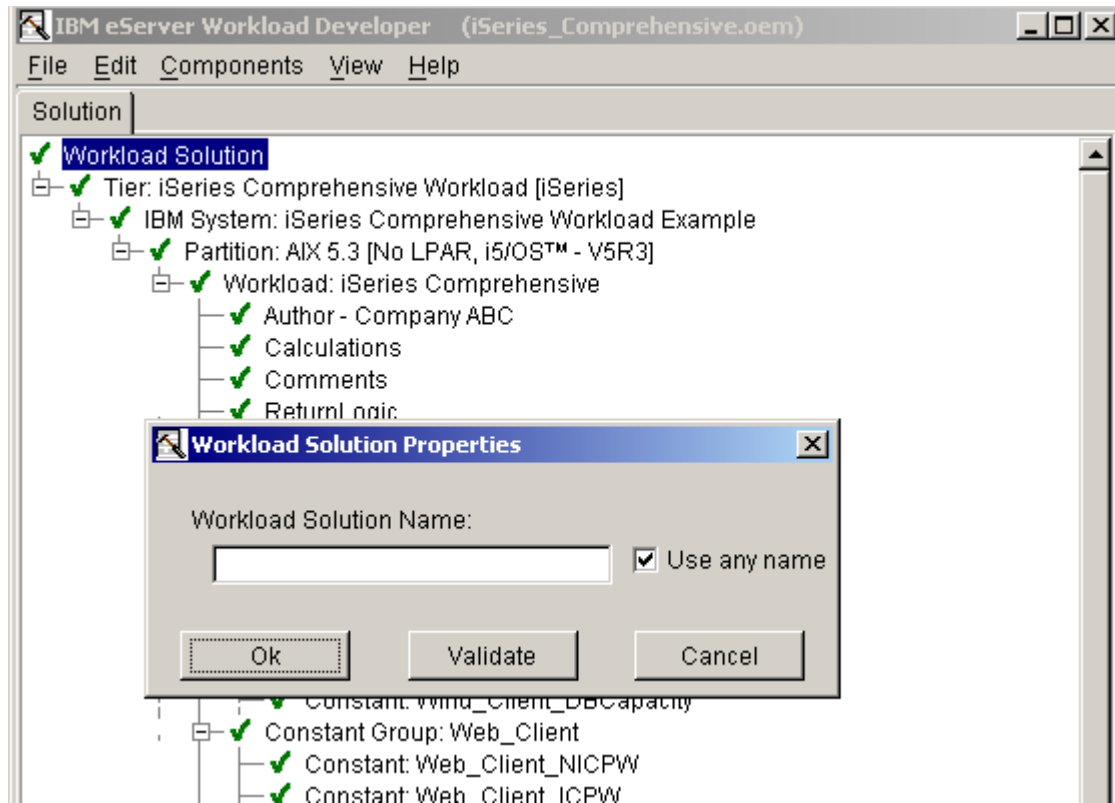
Overall Workload

A screen shot of the overall workload looks like this:



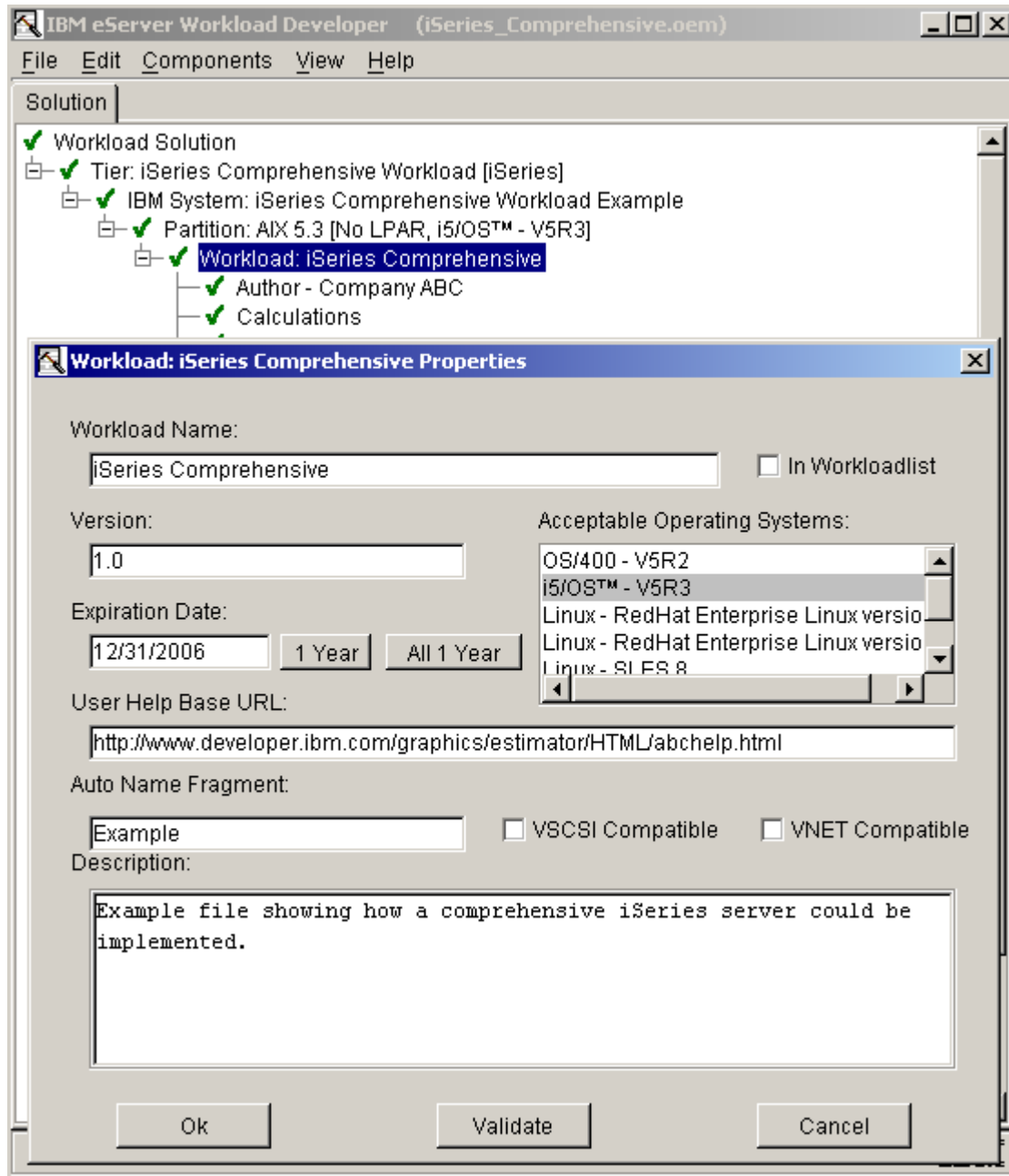
Workload Solution Name

A screen shot of the Workload Solution Name component follows.



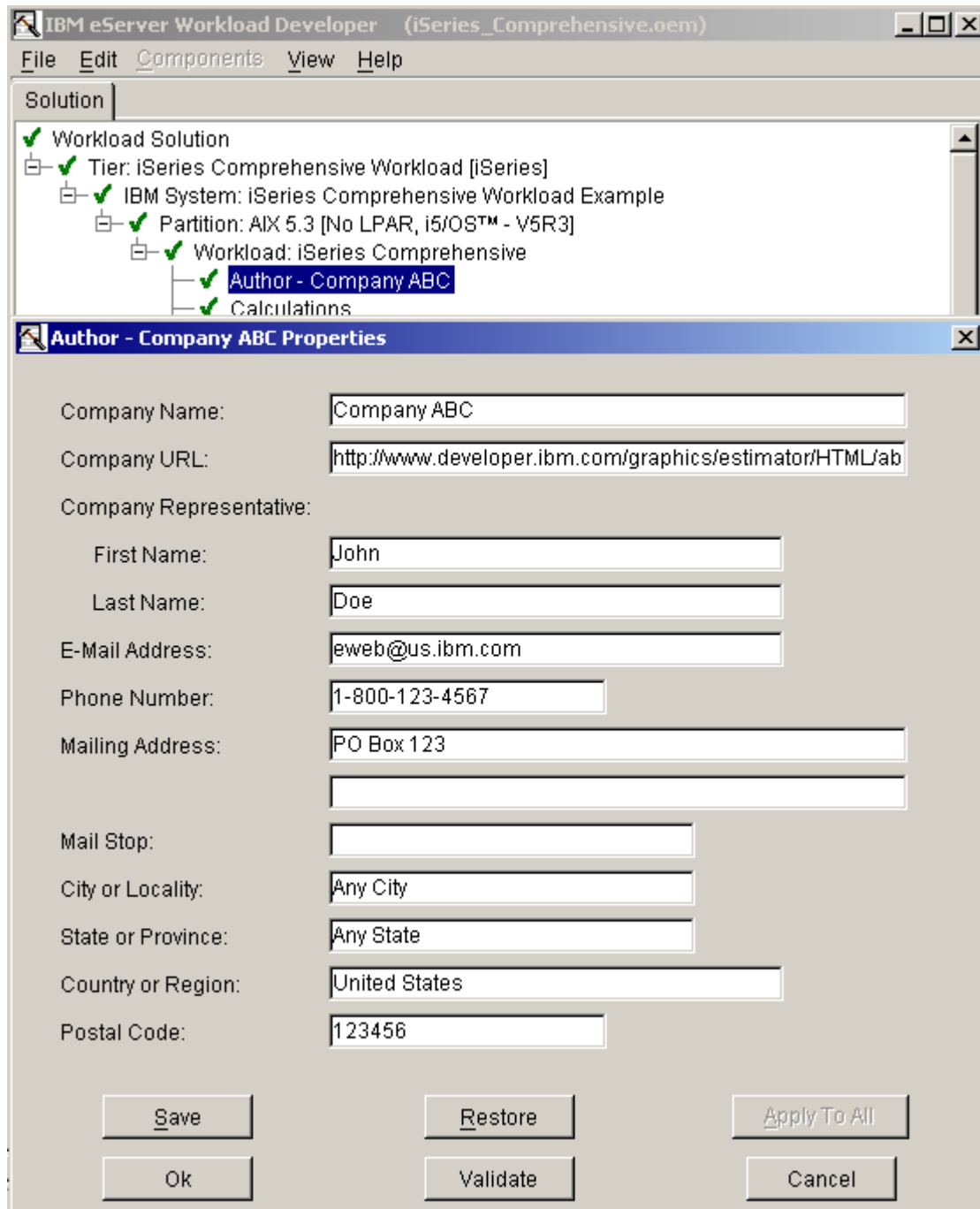
Workload Component

A screen shot of the Workload component follows.



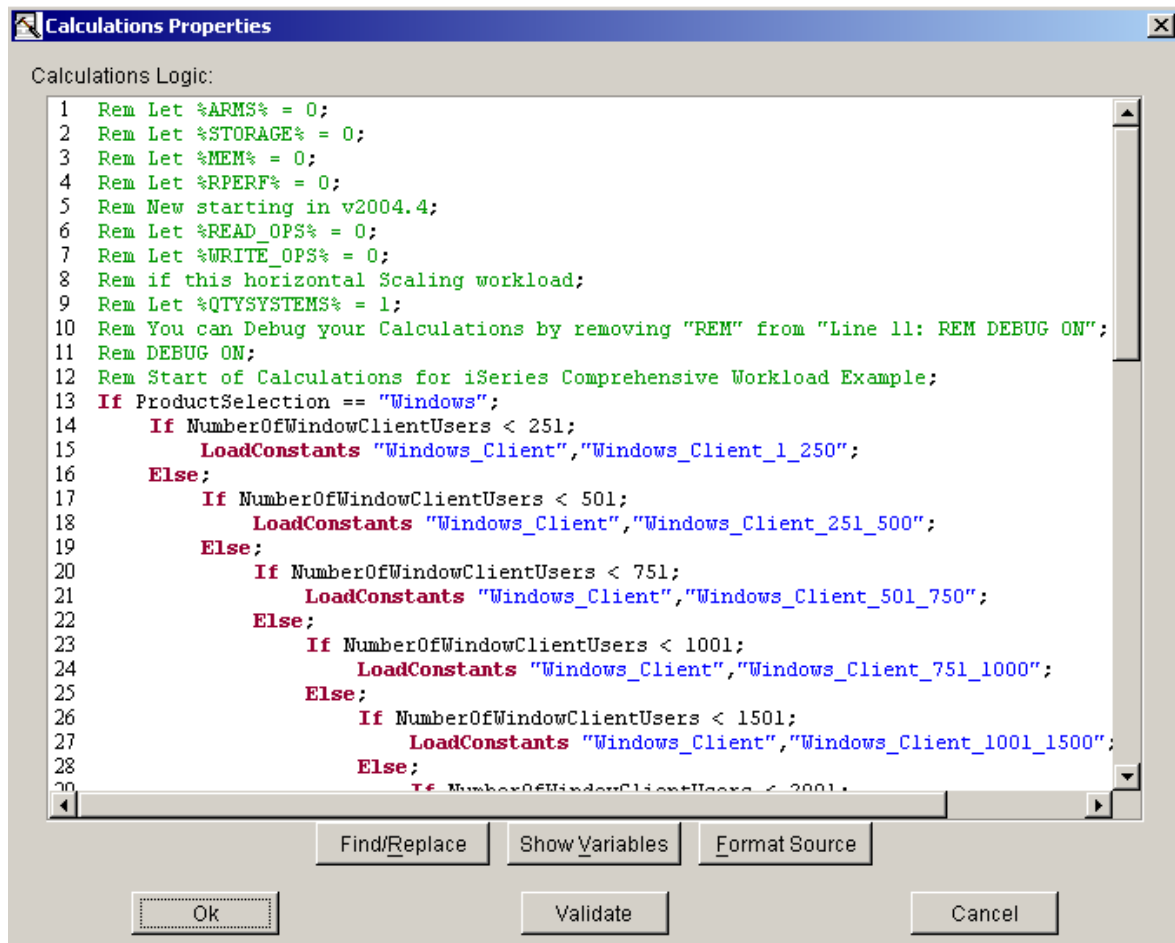
Author

A screen shot of the Author component follows.



Calculations

The Calculations component screen shot follows. A detailed description of the Calculations follows on the next page.



Calculations Detailed Description

```
Rem Let %ARMS% = 0;
Rem Let %STORAGE% = 0;
Rem Let %MEM% = 0;
Rem Let %RPERF% = 0;
Rem New starting in v2004.4;
Rem Let %READ_OPS% = 0;
Rem Let %WRITE_OPS% = 0;
Rem if this horizontal Scaling workload;
Rem Let %QTYSYSTEMS% = 1;
Rem You can Debug your Calculations by removing "REM" from "Line 11: REM DEBUG ON";
Rem DEBUG ON;
Rem Start of Calculations for iSeries Comprehensive Workload Example;
If ProductSelection == "Windows";
    If NumberOfWindowClientUsers < 251;
        LoadConstants "Windows_Client","Windows_Client_1_250";
    Else;
        If NumberOfWindowClientUsers < 501;
            LoadConstants "Windows_Client","Windows_Client_251_500";
        Else;
            If NumberOfWindowClientUsers < 751;
                LoadConstants "Windows_Client","Windows_Client_501_750";
            Else;
                If NumberOfWindowClientUsers < 1001;
                    LoadConstants
"Windows_Client","Windows_Client_751_1000";
                Else;
                    If NumberOfWindowClientUsers < 1501;
                        LoadConstants
"Windows_Client","Windows_Client_1001_1500";
                    Else;
                        If NumberOfWindowClientUsers < 2001;
                            LoadConstants
"Windows_Client","Windows_Client_1501_2000";
                        Else;
                            LoadConstants
"Windows_Client","Windows_Client_2000Plus";
                        EndIf;
                    EndIf;
                EndIf;
            EndIf;
        EndIf;
    EndIf;
    Rem Set variables for Window Clients;
    Let %NICPW% = Wind_Client_NICPW;
    Let %ICPW% = Wind_Client_ICPW;
    Let %DBCAPACITY% = Wind_Client_DBCapacity;
```

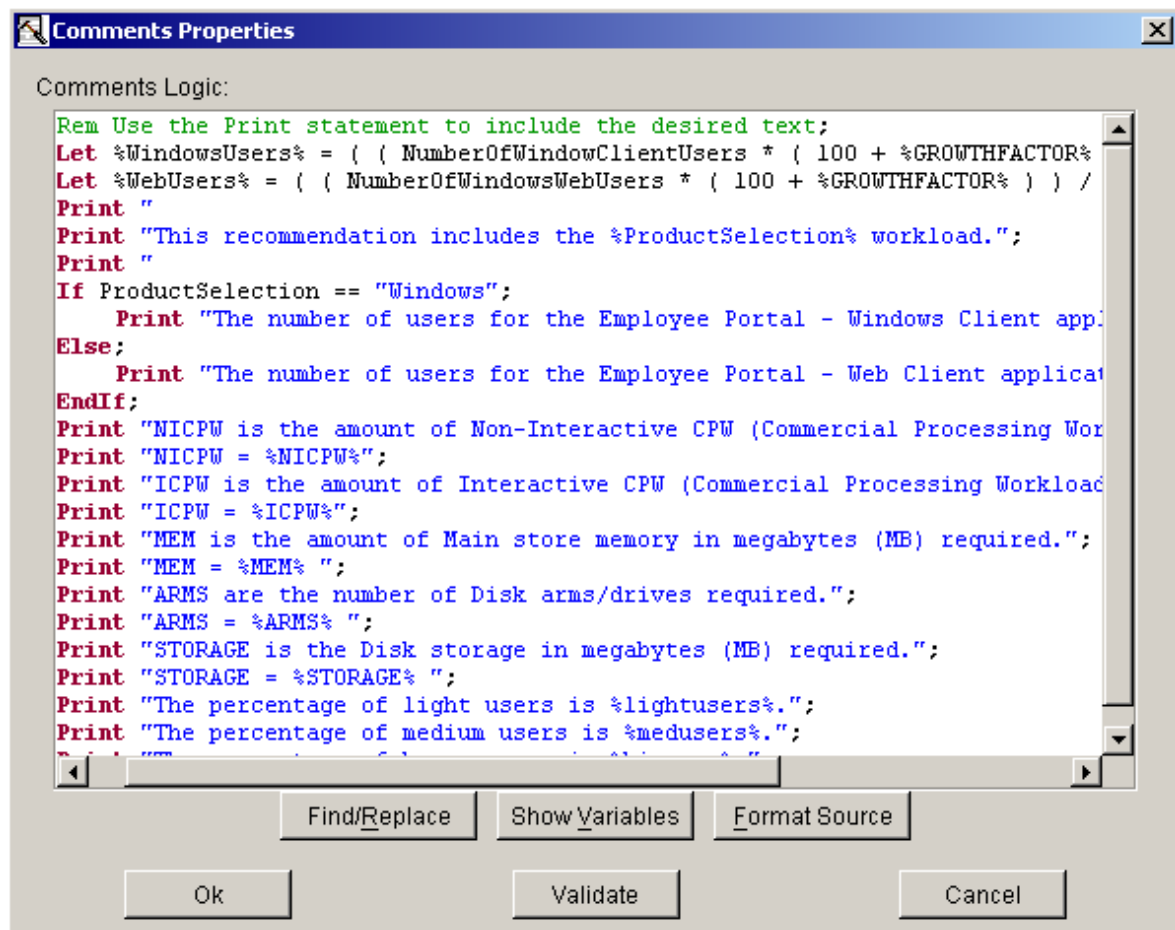
```

    Let %MEM% = Wind_Client_MEM;
    Let %STORAGE% = Wind_Client_Storage;
    Let %ARMS% = Wind_Client_ARMS;
Else;
    Rem Number of Web Clients;
    If NumberOfWindowsWebUsers < 51;
        LoadConstants "Web_Client","Web_Client_1_50";
    Else;
        If NumberOfWindowsWebUsers < 101;
            LoadConstants "Web_Client","Web_Client_51_100";
        Else;
            LoadConstants "Web_Client","Web_Client_101_200";
        EndIf;
    EndIf;
    Rem Set variables for Web Clients;
    Let %NICPW% = Web_Client_NICPW;
    Let %ICPW% = Web_Client_ICPW;
    Let %DBCAPACITY% = Web_Client_DBCapacity;
    Let %MEM% = Web_Client_MEM;
    Let %STORAGE% = Web_Client_Storage;
    Let %ARMS% = Web_Client_ARMS;
EndIf;
Rem Re - calibrate Capacity if System has MORE than one CPU;
If %SYS_NWAY% > 1;
    Let %MEM% = %MEM% + ( 2 * 256 );
    Let %STORAGE% = %STORAGE%;
    Let %ARMS% = %ARMS% + 1;
EndIf;
Rem Re - Balance if Percentages of User Types Changes;
Let %NICPW% = %NICPW% + ( ( ( lightusers / 100 ) - .20 ) * 20 );
Let %NICPW% = %NICPW% + ( ( ( medusers / 100 ) - .70 ) * 30 );
Let %NICPW% = %NICPW% + ( ( ( hiusers / 100 ) - .10 ) * 40 );
Let %ICPW% = %ICPW% + ( ( ( lightusers / 100 ) - .20 ) * 30 );
Let %ICPW% = %ICPW% + ( ( ( medusers / 100 ) - .70 ) * 40 );
Let %ICPW% = %ICPW% + ( ( ( hiusers / 100 ) - .10 ) * 50 );

```

Comments

The Comments component screen shot follows. A detailed description of the Comments follows on the next page.

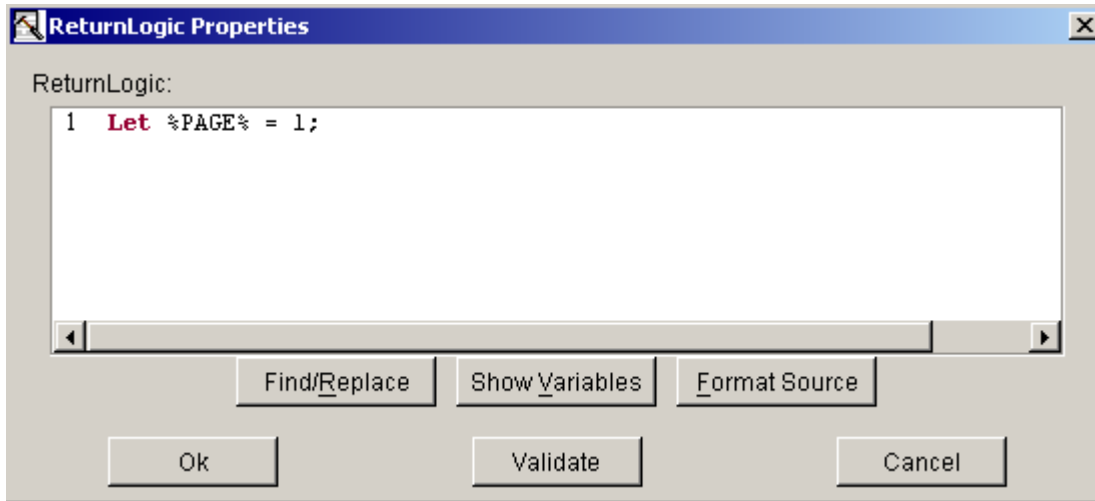


Comments Detailed Description

```
Rem Use the Print statement to include the desired text;
Let %WindowsUsers% = ( ( NumberOfWindowClientUsers * ( 100 + %GROWTHFACTOR% ) ) /
100 );
Let %WebUsers% = ( ( NumberOfWindowsWebUsers * ( 100 + %GROWTHFACTOR% ) ) / 100
);
Print "                                ";
Print "This recommendation includes the %ProductSelection% workload.";
Print "                                ";
If ProductSelection == "Windows";
    Print "The number of users for the Employee Portal - Windows Client application =
%WindowsUsers%";
Else;
    Print "The number of users for the Employee Portal - Web Client application =
%WebUsers%";
EndIf;
Print "NICPW is the amount of Non-Interactive CPW (Commercial Processing Workload) for
iSeries systems.";
Print "NICPW = %NICPW%";
Print "ICPW is the amount of Interactive CPW (Commercial Processing Workload) for iSeries
systems.";
Print "ICPW = %ICPW%";
Print "MEM is the amount of Main store memory in megabytes (MB) required.";
Print "MEM = %MEM% ";
Print "ARMS are the number of Disk arms/drives required.";
Print "ARMS = %ARMS% ";
Print "STORAGE is the Disk storage in megabytes (MB) required.";
Print "STORAGE = %STORAGE% ";
Print "The percentage of light users is %lightusers%.";
Print "The percentage of medium users is %medusers%.";
Print "The percentage of heavy users is %hiusers%.";
```

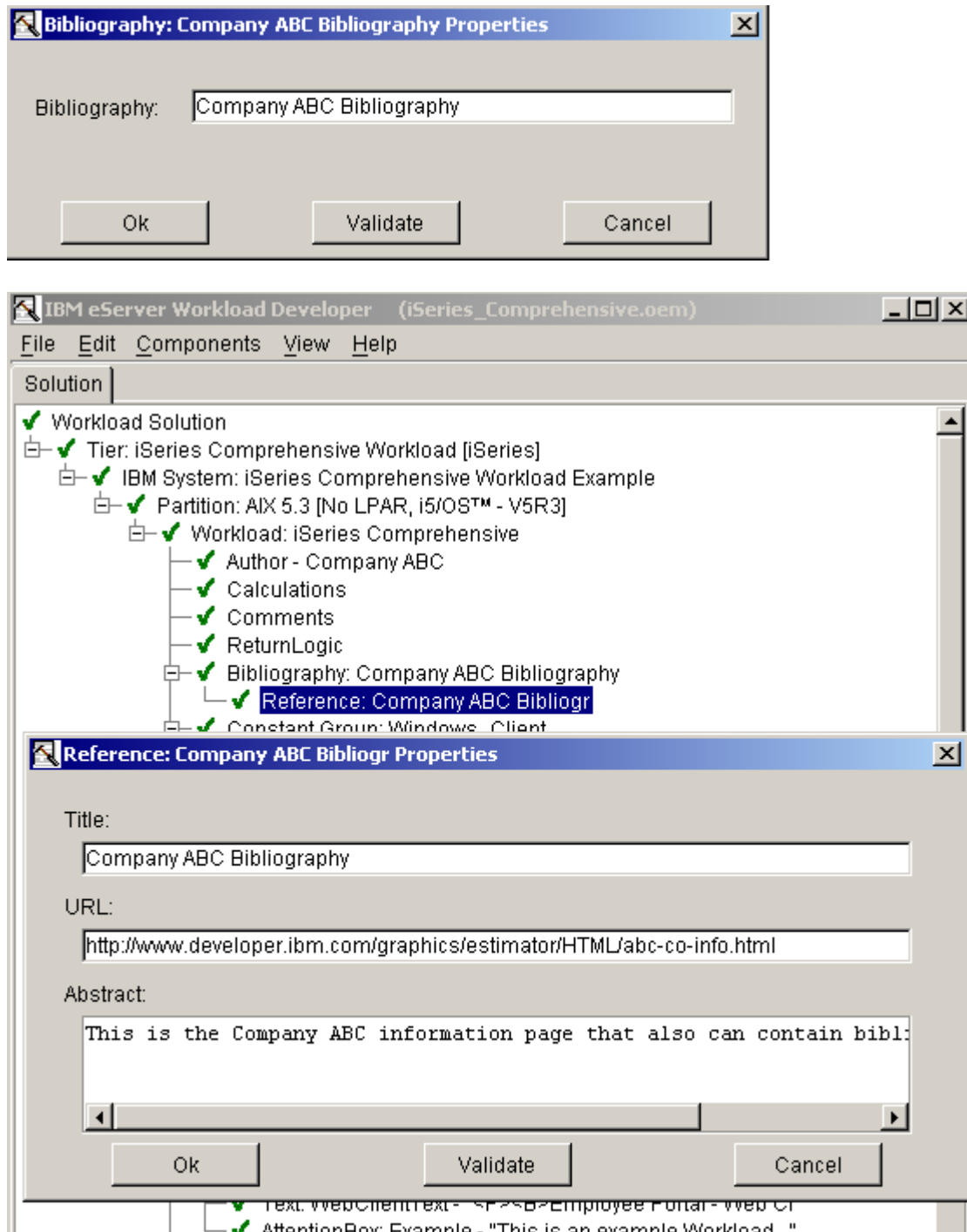
Return Logic

The Return Logic component screen shot follows.

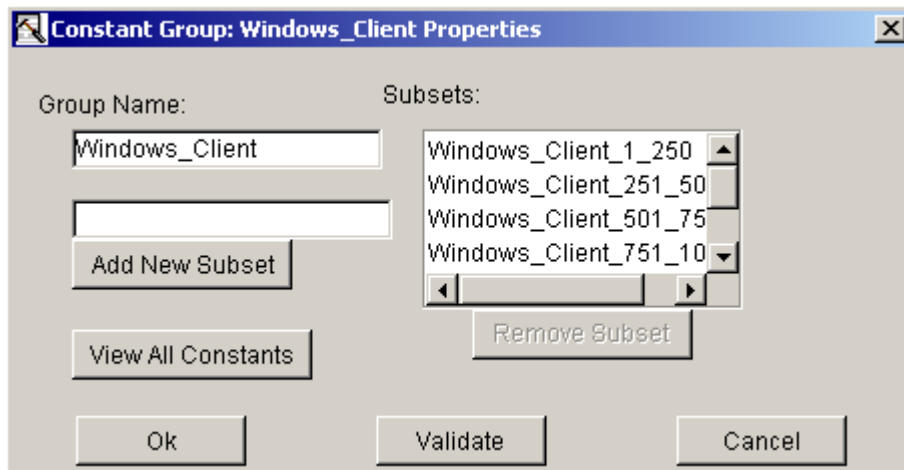
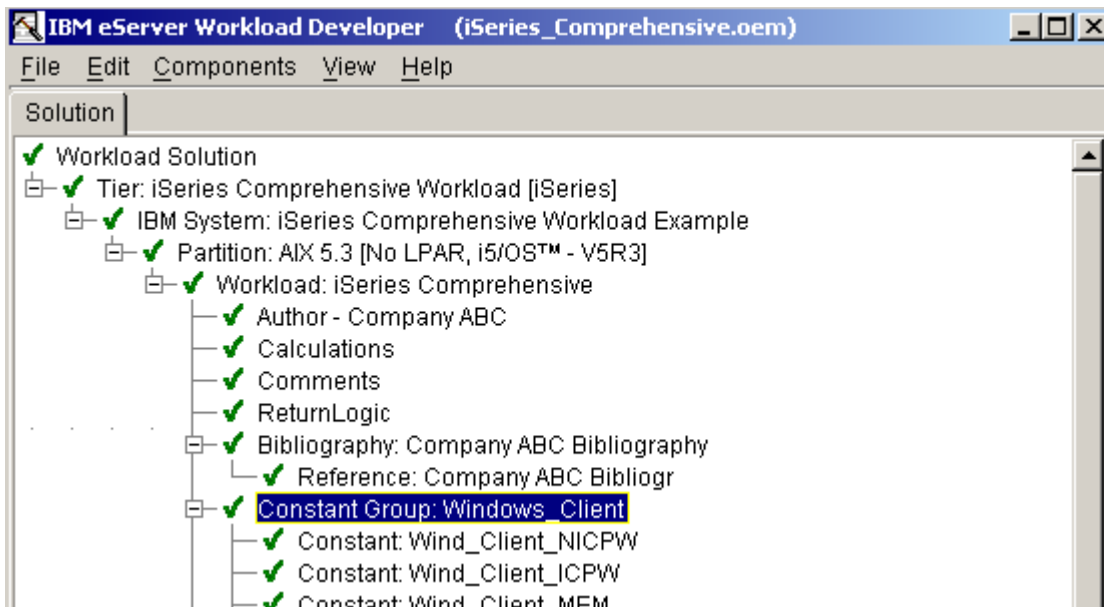


Bibliography

The Bibliography and Bibliography Reference component screen shots follows.



Constant Group - Windows_Client

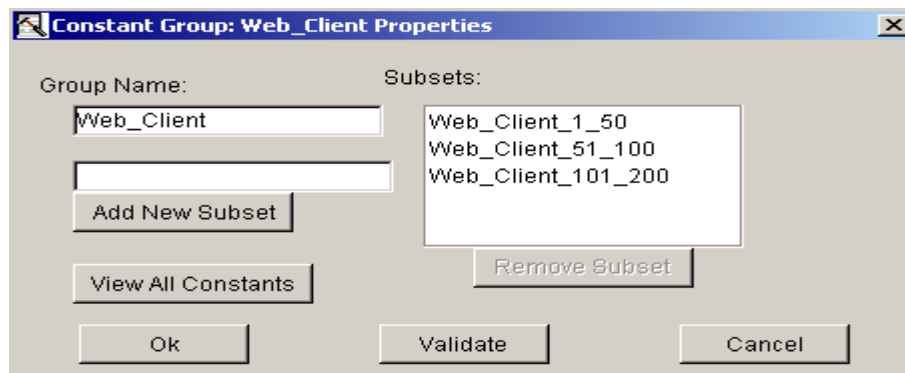
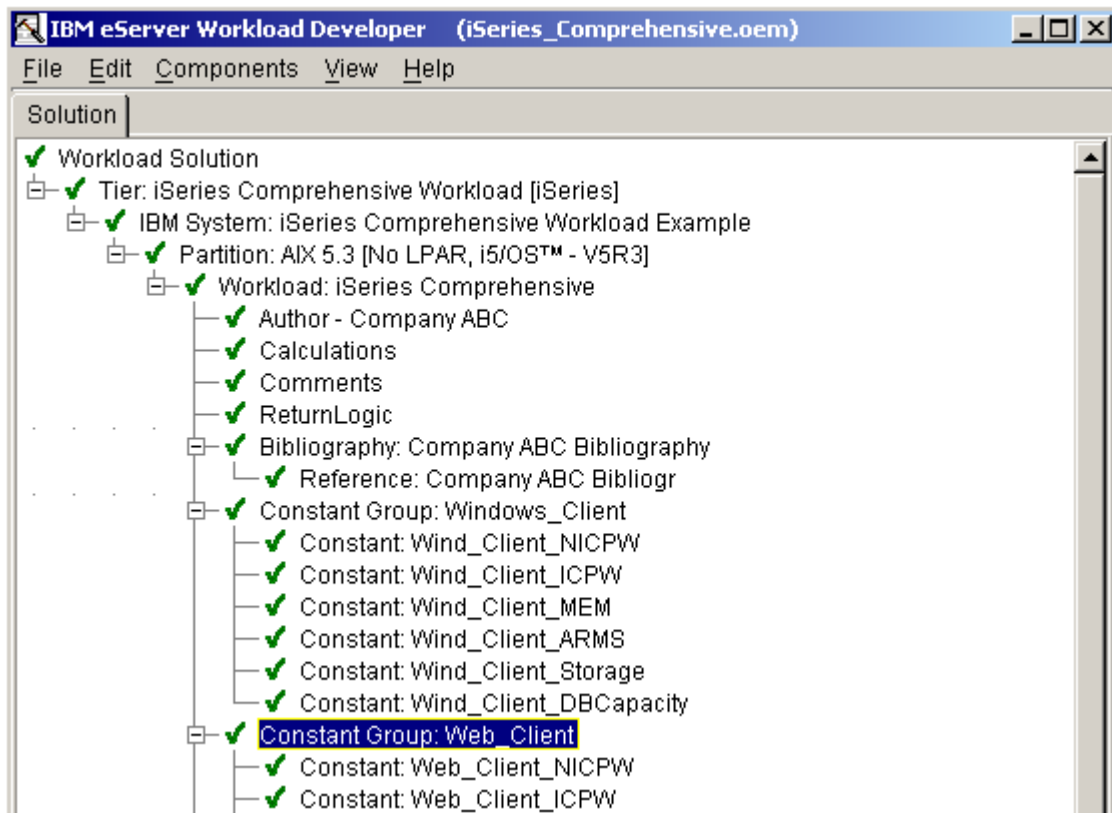


Constant Group - Windows_Client Properties

The screenshot shows the 'Constant Group: Windows_Client Properties' dialog box with a table of constants. The table has seven columns: Subset, Wind_Client_NICPW, Wind_Client_ICPW, Wind_Client_MEM, Wind_Client_ARMS, Wind_Client_Storage, and Wind_Client_DBCapa... The table contains eight rows of data.

| Subset | Wind_Client_NICPW | Wind_Client_ICPW | Wind_Client_MEM | Wind_Client_ARMS | Wind_Client_Storage | Wind_Client_DBCapa... |
|-----------------------|-------------------|------------------|-----------------|------------------|---------------------|-----------------------|
| Windows_Client_1_250 | 250 | 250 | 1024 | 2 | 30 | 4 |
| Windows_Client_251... | 500 | 500 | 2048 | 2 | 60 | 6 |
| Windows_Client_501... | 750 | 750 | 4096 | 4 | 80 | 7 |
| Windows_Client_751... | 1000 | 1000 | 8192 | 4 | 110 | 8 |
| Windows_Client_100... | 1500 | 1500 | 16384 | 6 | 160 | 10 |
| Windows_Client_150... | 2000 | 2000 | 32768 | 8 | 210 | 12 |
| Windows_Client_200... | 2500 | 2500 | 65536 | 10 | 260 | 15 |

Constant Group - WEB_Client



Constant Group - WEB_Client Properties

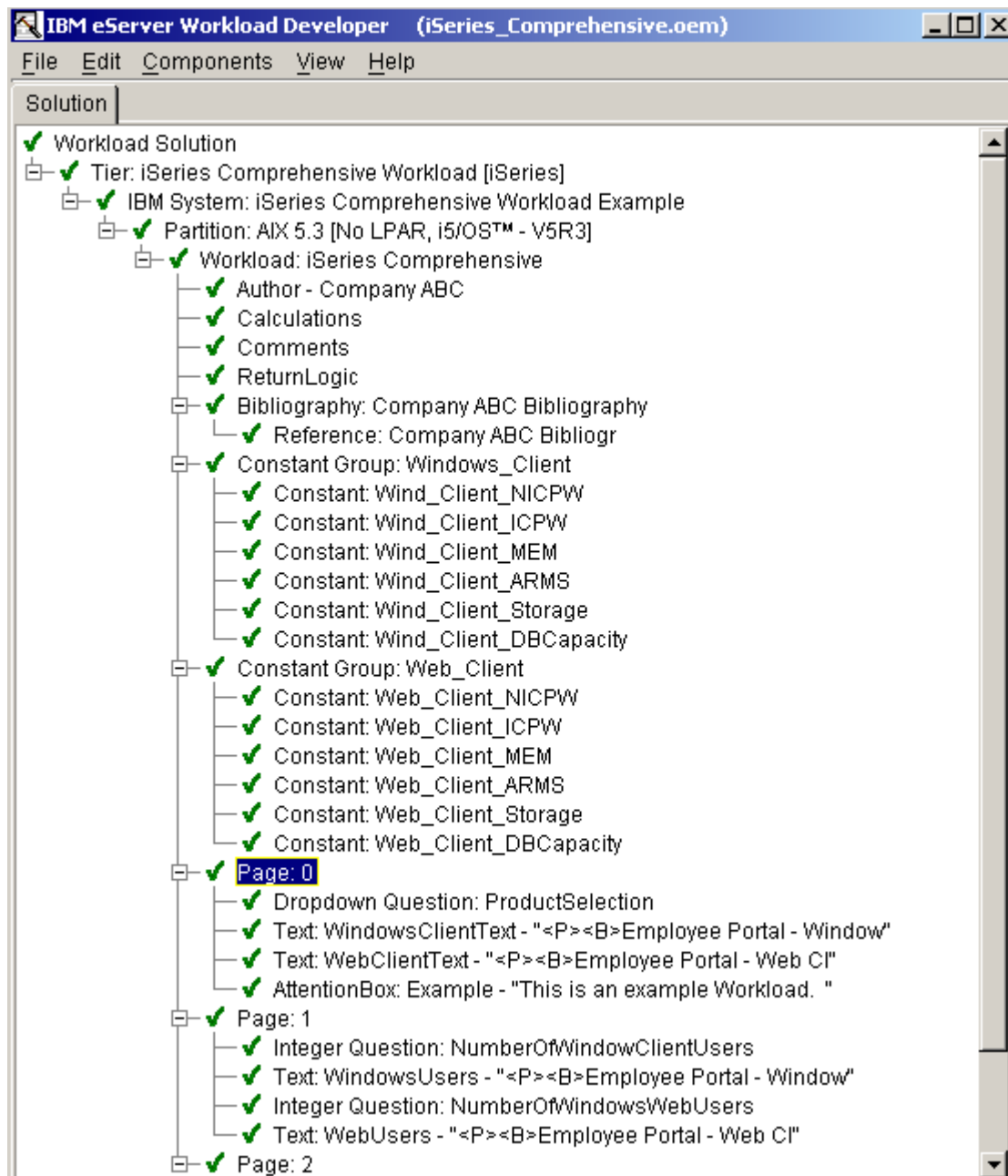
| Constant Group: Web_Client | | | | | | |
|----------------------------|------------------|-----------------|----------------|-----------------|--------------------|--------------------|
| Subset | Web_Client_NICPW | Web_Client_ICPW | Web_Client_MEM | Web_Client_ARMS | Web_Client_Storage | Web_Client_DBCa... |
| Web_Client_1_50 | 200 | 200 | 2048 | 2 | 60 | 4 |
| Web_Client_51_100 | 400 | 400 | 4096 | 4 | 120 | 6 |
| Web_Client_101_... | 800 | 800 | 8192 | 8 | 240 | 8 |

Workload Pages

Workload Pages Overview

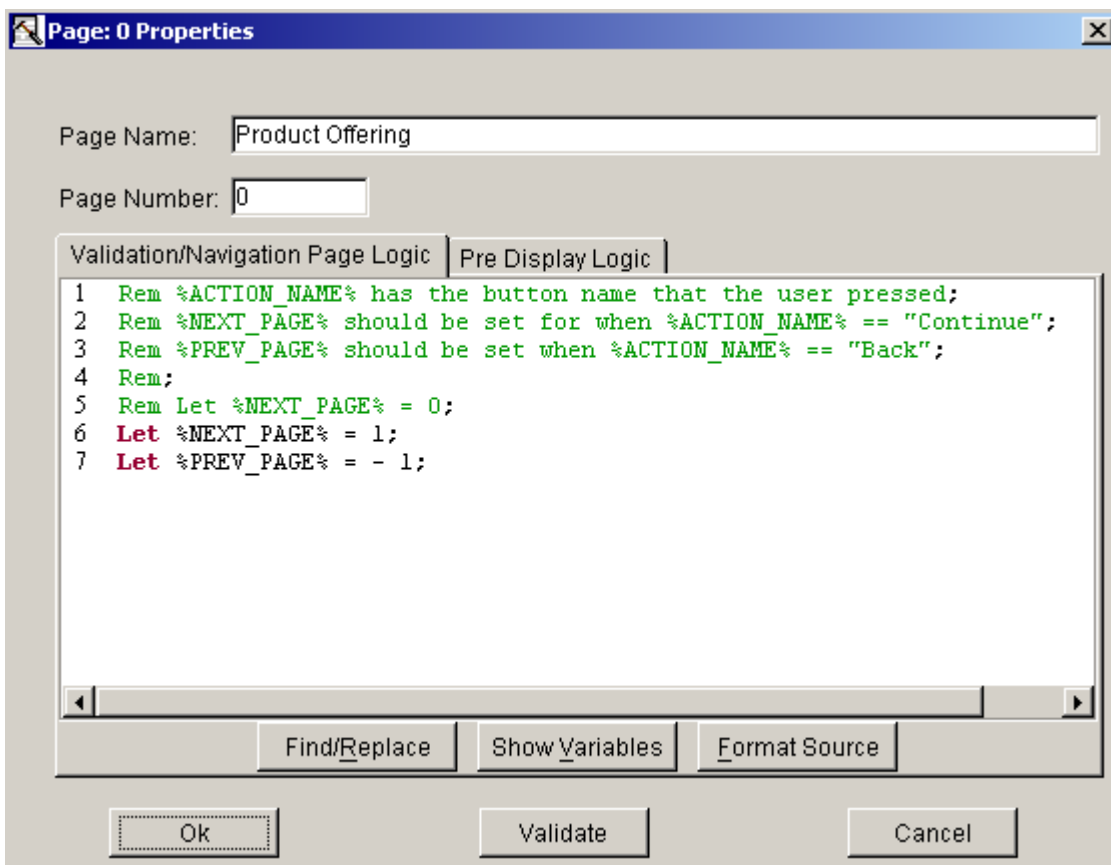
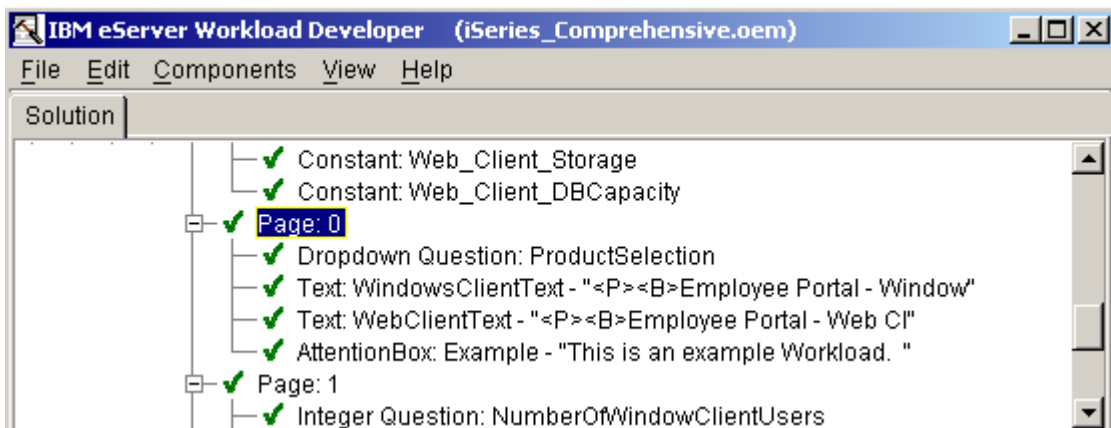
The Workload Pages contain the content that is displayed when your completed Sizing Guide HTML file is run on the Sizing Guide server. The Comprehensive Workload example contains three Workload Pages -- Page 0, Page 1 and Page 2.

A screen shot of the Workload Pages follows.



Workload Page 0 - Product Selection

Following are screen shots of Workload Page 0 and the Page 0 components.



Wordload Page 0 - Dropdown Question

Following is a screen shot of the information found under the Common tab of the Page 0 Dropdown Question "Product Selection".

The screenshot shows a dialog box titled "Dropdown Question: ProductSelection Properties" with a close button (X) in the top right corner. The dialog has three tabs: "Common", "Specific", and "Advanced", with "Common" currently selected. The "Common" tab contains several text input fields with the following labels and values:

- Question Name: ProductSelection
- Pre-Link Text: Select the Company ABC
- Linked Text: product offering
- Post-Link Text: that you plan to implement.
- Flyout Text: Chose from one of these products.
- Link URL: <http://www.developer.ibm.com/graphics/estimator/HTML/abchelp.html>

At the bottom of the dialog, there are three buttons: "Ok", "Validate", and "Cancel".

Following is a screen shot of the information found under the Specific tab of the Page 0 Dropdown Question "Product Selection".

The screenshot shows a dialog box titled "Dropdown Question: ProductSelection Properties" with three tabs: "Common", "Specific" (selected), and "Advanced". The "Specific" tab contains the instruction: "Select the Company ABC [product offering](#) that you plan to implement."

Below the instruction is the "Options" section. It features an "Initial Value:" dropdown menu currently set to "Windows". To the right is a table with two columns: "Value" and "Description".

| Value | Description |
|---------|------------------------|
| Windows | Employee Portal - W... |
| Web | Employee Portal - W... |

Below the table are two buttons: "Remove Option" and "Add Option". At the bottom of the "Options" section are two input fields labeled "New Value" and "New Description".

At the very bottom of the dialog box are three buttons: "Ok", "Validate", and "Cancel".

Following is a screen shot of the information found under the Advanced tab of the Page 0 Dropdown Question "Product Selection".

The screenshot shows a dialog box titled "Dropdown Question: ProductSelection Properties". It has three tabs: "Common", "Specific", and "Advanced", with "Advanced" being the active tab. The dialog contains two sections: "Flyout Positioning/Sizing:" and "Indentation Options:". In the "Flyout Positioning/Sizing:" section, there is a checked checkbox "Use Default Positioning/Sizing", and three text input fields: "Horizontal Offset of Flyout:" with value "0", "Vertical Offset of Flyout:" with value "0", and "Width of Flyout:" with value "350". In the "Indentation Options:" section, there is one text input field: "Indentation of Input:" with value "5". At the bottom of the dialog are three buttons: "Ok", "Validate", and "Cancel".

| Property | Value |
|--------------------------------|-------------------------------------|
| Use Default Positioning/Sizing | <input checked="" type="checkbox"/> |
| Horizontal Offset of Flyout | 0 |
| Vertical Offset of Flyout | 0 |
| Width of Flyout | 350 |
| Indentation of Input | 5 |

Following is a screen shot of the Windows Client text component of Workload Page 0.

The screenshot shows a Windows-style dialog box titled "Text: WindowsClientText - "<P>Employee Portal - Window" Properties". The dialog has a light gray background and a blue title bar. It contains the following elements:

- Component Name:** A text field containing "WindowsClientText".
- Include Text In Print/PDF Generation:** A checked checkbox.
- Text:** A large text area containing the following HTML-formatted text:

```
<P><B>Employee Portal - Windows Client:</B> This is an enterprise-wide,
customer-centric Windows solution allowing a company to gather,
integrate and share customer information with anyone in their extended
organization, maximizing the efficiency of marketing, sales, service
and support.</P>
```
- Background Color:** A color selection box showing white.
- Foreground Color:** A color selection box showing black.
- Buttons:** "Ok", "Validate", and "Cancel" buttons at the bottom.

Following is a screen shot of the Web Client text component of Workload Page 0.

Text: WebClientText - "<P>Employee Portal - Web Cl" Properties

Component Name: ☒ Include Text In Print/PDF Generation

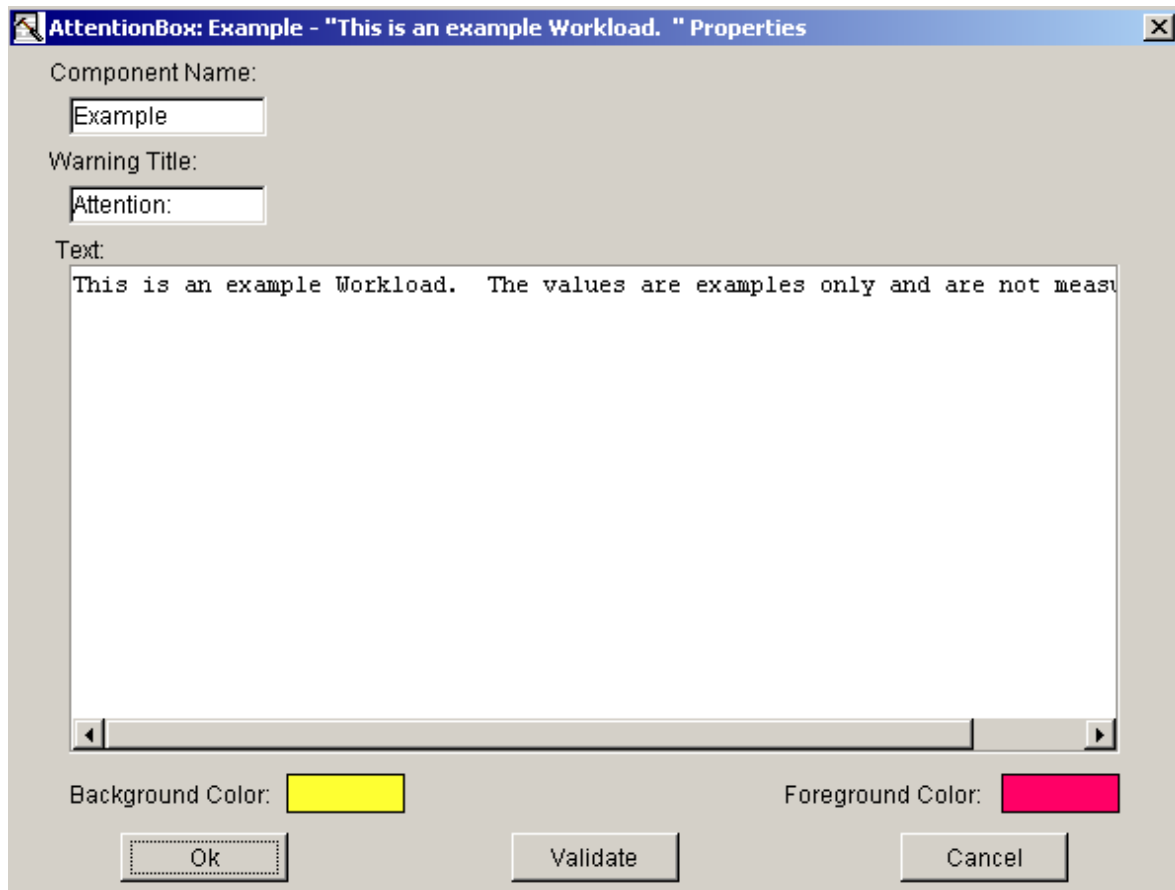
Text:

```
<P><B>Employee Portal - Web Client:</B> This is an enterprise-wide, customer-centric web solution consolidating customer-relationship management functionality with complementary applications and Internet content in a single, customizable web interface, maximizing the efficiency of marketing, sales, service and support.</P>
```

Background Color: Foreground Color:

Ok Validate Cancel

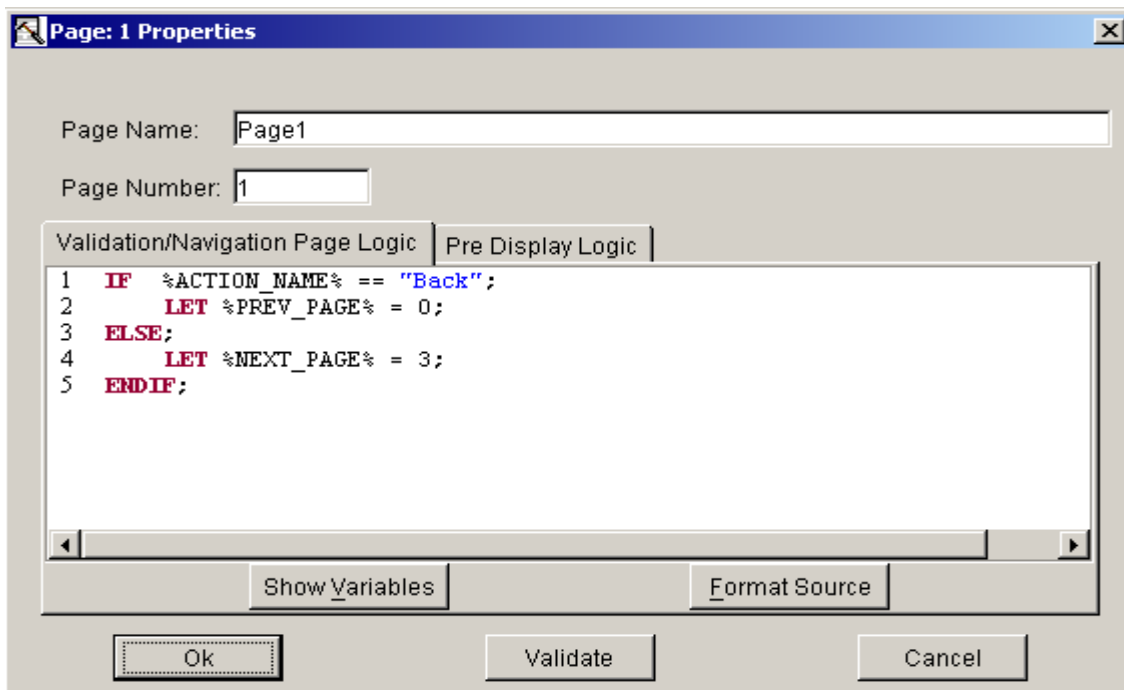
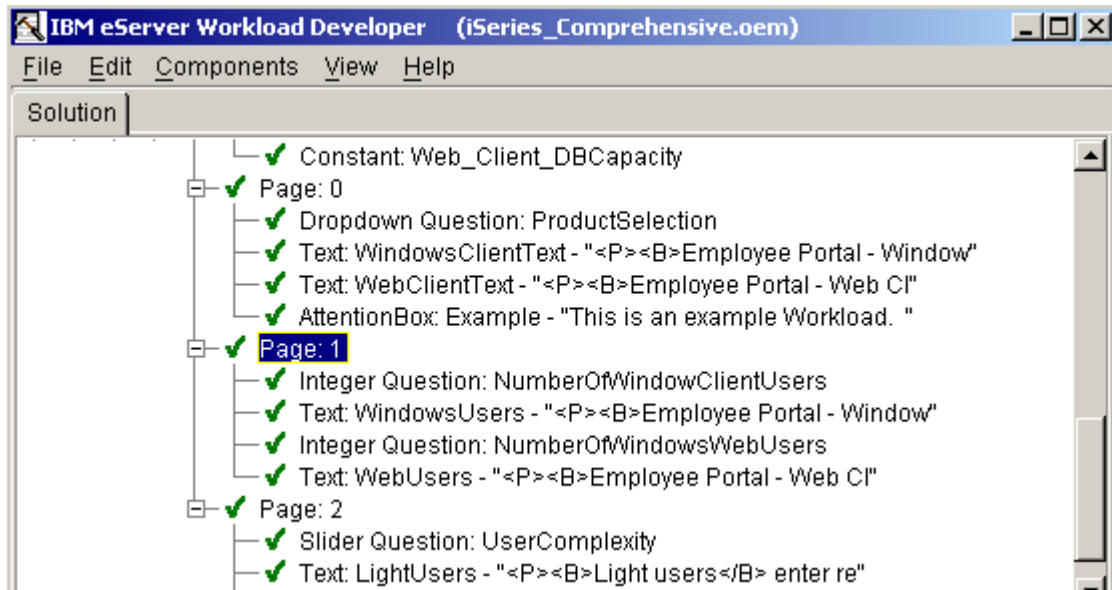
Following is a screen shot of the Attention Box component of Workload Page 0.



Workload Page 1 - Double Question

Following are screen shots of Workload Page 1 and the Page 1 components.

Please note that screen shots for the first integer question on Page 1 (Number of Windows Client Users) are shown. The second integer question on Page 1 (Number of Web Client Users) is similar to the first integer question on Page 1 and these second integer question screen shots are not shown.



Following is a screen shot of the information found under the Common tab of the Page 1 Integer Question "Number of Windows Client Users".

The screenshot shows a dialog box titled "Integer Question: NumberOfWindowClientUsers Properties". It has three tabs: "Common", "Specific", and "Advanced". The "Common" tab is selected. The dialog contains the following fields:

- Question Name:
- Pre-Link Text:
- Linked Text:
- Post-Link Text:
- Flyout Text:
- Link URL:

At the bottom of the dialog are three buttons: "Ok", "Validate", and "Cancel".

Following is a screen shot of the information found under the Specific tab of the Page 1 Integer Question "Number of Windows Client Users".

The screenshot shows a dialog box titled "Integer Question: NumberOfWindowClientUsers Properties". It has three tabs: "Common", "Specific" (which is selected), and "Advanced". The "Specific" tab contains the following fields and controls:

- A text area with the prompt: "Enter the number of [Windows Client](#) users."
- "Initial Value:" field with the value "100".
- "Units:" field with the value "Users".
- "Minimum Value:" field with the value "10" and an "Edit" button.
- "Maximum Value:" field with the value "2500" and an "Edit" button.
- A checkbox labeled "This Question is a Major Driver" which is currently unchecked.
- "Units for PDF Graph:" field with the value "Users".

At the bottom of the dialog box are three buttons: "Ok", "Validate", and "Cancel".

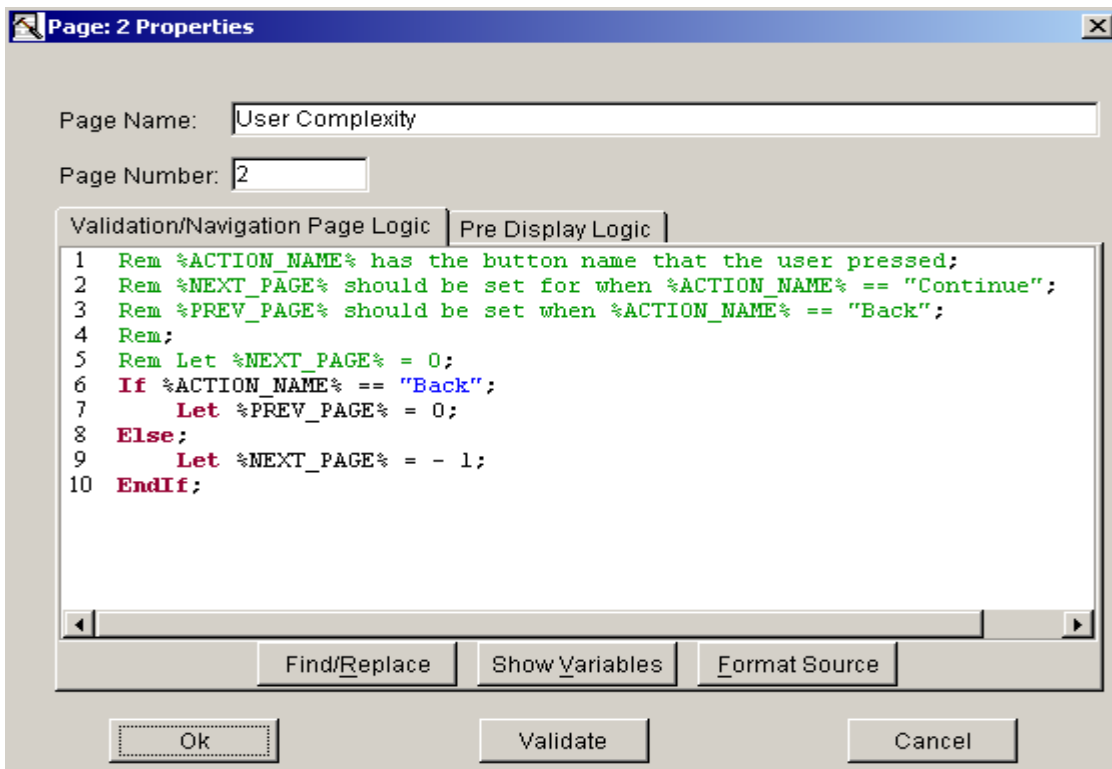
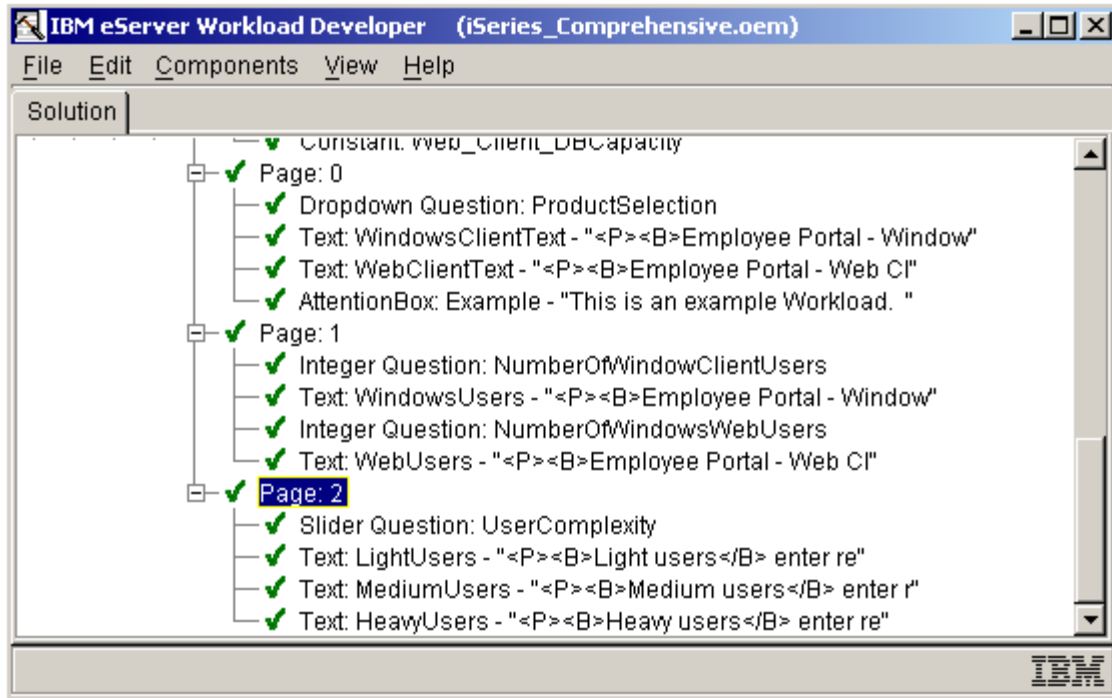
Following is a screen shot of the information found under the Advanced tab of the Page 1 Integer Question "Number of Windows Client Users".

The screenshot shows a dialog box titled "Integer Question: NumberOfWindowClientUsers Properties". It has three tabs: "Common", "Specific", and "Advanced", with "Advanced" being the active tab. The dialog is divided into two main sections: "Flyout Positioning/Sizing:" and "Indentation Options:". In the "Flyout Positioning/Sizing:" section, the checkbox "Use Default Positioning/Sizing" is checked. Below it are three text input fields: "Horizontal Offset of Flyout:" with a value of 0, "Vertical Offset of Flyout:" with a value of 0, and "Width of Flyout:" with a value of 350. In the "Indentation Options:" section, there is one text input field: "Indentation of Input:" with a value of 5. At the bottom of the dialog are three buttons: "Ok", "Validate", and "Cancel".

| Property | Value |
|--------------------------------|-------------------------------------|
| Use Default Positioning/Sizing | <input checked="" type="checkbox"/> |
| Horizontal Offset of Flyout | 0 |
| Vertical Offset of Flyout | 0 |
| Width of Flyout | 350 |
| Indentation of Input | 5 |

Workload Page 2 - Slider Question

Following are screen shots of Workload Page 2 and the Page 2 components.



Following is a screen shot of the information found under the Common tab of the Page 2 Slider Question "User Complexity".

The screenshot shows a dialog box titled "Slider Question: UserComplexity Properties" with a close button (X) in the top right corner. The dialog has three tabs: "Common", "Specific", and "Advanced". The "Common" tab is selected. It contains several text input fields for configuring a slider question. The fields are labeled as follows:

- Question Name: UserComplexity
- Pre-Link Text: Rate the users of this application by the
- Linked Text: complexity
- Post-Link Text: of the users.
- Flyout Text: Select the percentage of users that are light users, medium users and he
- Link URL: <http://www.developer.ibm.com/graphics/estimator/HTML/abchelp.html>

At the bottom of the dialog, there are three buttons: "Ok", "Validate", and "Cancel".

Following is a screen shot of the information found under the Specific tab of the Page 2 Slider Question "User Complexity".

The screenshot shows a dialog box titled "Slider Question: UserComplexity Properties" with three tabs: "Common", "Specific" (selected), and "Advanced". The "Specific" tab contains the following elements:

- A text field with the instruction: "Rate the users of this application by the [complexity](#) of the users."
- Input fields for "Minimum Value:" (0), "Maximum Value:" (100), and "Increment Value:" (1).
- A "Units:" label followed by an empty text field.
- A "Remove Zone" button.
- A table titled "Zones" with columns "ID", "Label", and "Initial Value". It contains three rows: "lightusers" (Light, 20.0), "medusers" (Medium, 70.0), and "hiusers" (Heavy, 10.0).
- An "Add Zone" button.
- Input fields for "New ID", "New Label", and "New Init Value".

At the bottom of the dialog are three buttons: "Ok", "Validate", and "Cancel".

| ID | Label | Initial Value |
|------------|--------|---------------|
| lightusers | Light | 20.0 |
| medusers | Medium | 70.0 |
| hiusers | Heavy | 10.0 |

Following is a screen shot of the information found under the Advanced tab of the Page 2 Slider Question "User Complexity".

The screenshot shows a dialog box titled "Slider Question: UserComplexity Properties". It has three tabs: "Common", "Specific", and "Advanced", with "Advanced" currently selected. The "Advanced" tab contains two sections: "Flyout Positioning/Sizing" and "Indentation Options".

Flyout Positioning/Sizing:

- ☒ Use Default Positioning/Sizing
- Horizontal Offset of Flyout:
- Vertical Offset of Flyout:
- Width of Flyout:

Indentation Options:

- Indentation of Input:

At the bottom of the dialog box are three buttons: "Ok", "Validate", and "Cancel".

Following are screen shots of the information found under the Light User, Medium User, and Heavy User Text components found on Page 2.

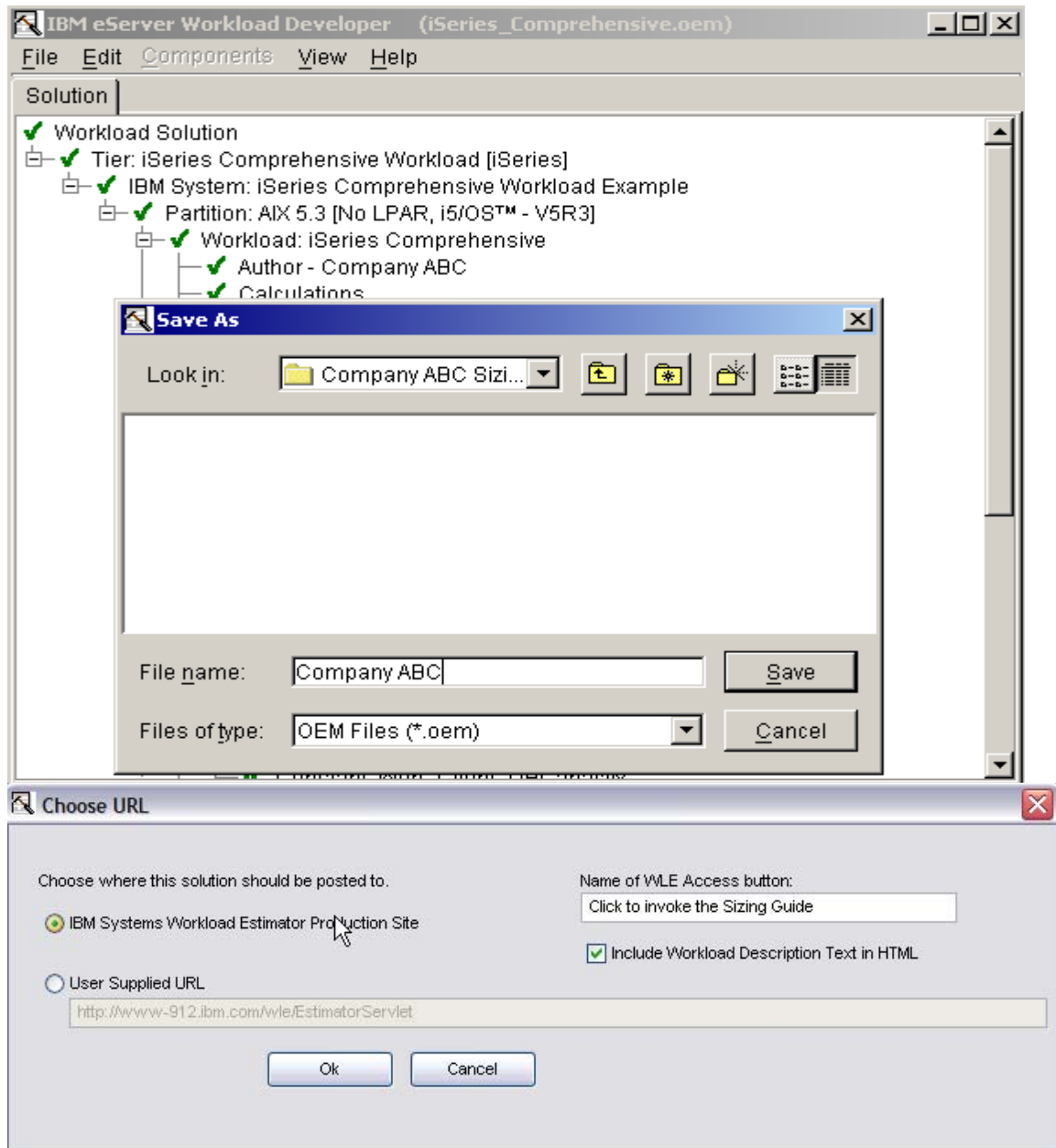
The screenshot shows a dialog box titled "Text: LightUsers - "<P>Light users enter re" Properties". It contains a "Component Name" field with "LightUsers", a checked "Include Text In Print/PDF Generation" checkbox, and a "Text" area with the content "<P>Light users enter records about once every 5 minutes.</P>". At the bottom, there are "Background Color" and "Foreground Color" pickers, and "Ok", "Validate", and "Cancel" buttons.

The screenshot shows a dialog box titled "Text: MediumUsers - "<P>Medium users enter r" Properties". It contains a "Component Name" field with "MediumUsers", a checked "Include Text In Print/PDF Generation" checkbox, and a "Text" area with the content "<P>Medium users enter records about once every 3 minutes.</P>". At the bottom, there are "Background Color" and "Foreground Color" pickers, and "Ok", "Validate", and "Cancel" buttons.

The screenshot shows a dialog box titled "Text: HeavyUsers - "<P>Heavy users enter re" Properties". It contains a "Component Name" field with "HeavyUsers", a checked "Include Text In Print/PDF Generation" checkbox, and a "Text" area with the content "<P>Heavy users enter records about once every minute.</P>". At the bottom, there are "Background Color" and "Foreground Color" pickers, and "Ok", "Validate", and "Cancel" buttons.

Save Your Workload

Save the workload as “Company ABC.OEM” and also as “Company ABC.HTML”.



Once you have saved the Workload as an HTML file, you can test it by bringing up the HTML file in a browser that will link it to the [IBM Systems Workload Estimator](http://www-912.ibm.com/wle/EstimatorServlet) server. You can use Internet Explorer, Netscape or Mozilla. Once you have opened the Sizing Guide, select the defaults and test your Workload. After you have completed testing your Workload, save the final Workload OEM and HTML files.

Getting the IBM Systems Workload Developer

Now that you have the questions, comments and measurements to create a Sizing Guide, you can download the IBM Systems Workload Developer and try it yourself. It's as easy as 1-2-3.

1. Go to the [Download the Workload Estimator](#) webpage.

You will see instructions to download and install the Developer.

2. Install the Developer on your workstation.
3. Create your sizing guide workload.

Best of all, there is [no charge](#) for downloading or using the IBM Systems Workload Developer to create or run your sizing guide.

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