

Logical Innovations, LLC

Visualize Your Encounters!

About Logical Innovations, LLC

Logical Innovations, LLC was founded with the vision of providing a better tool for the creation and editing of Centricity encounter forms. The Visual Form Editor was designed by a physician and Centricity® user, who recognized the urgent need for a tool to simplify the creation of quality encounter forms. By simplifying the design tasks, the developer can focus more resources on the production of quality forms. This improvement not only benefits the designer, but also the doctors, nurses and medical support staff that utilize the EMR. The ultimate result is enhanced patient care. With the release of the Visual Form Editor, Logical Innovations, LLC remains dedicated to enabling users to provide superior patient care.

Visual Form Editor

Visual Form Editor, by Logical Innovations, LLC, is a tool for rapid design of encounter forms, for use with the Centricity® EMR, enabling you to concentrate on creating quality forms rather than overcoming design considerations. This reduces the time and costs associated with designing and modifying forms.

The screenshot displays the Visual Form Editor software interface, titled "Visual Form Editor - [Vital.dlg]". The window features a standard menu bar (File, Edit, View, Insert, Tools, Window, Help) and a toolbar with various icons for file operations and editing. The main workspace is titled "Vital Signs - Extended" and contains several sections for form design:

- Vital Signs:** Includes fields for Height (inches), Weight (pounds), Temperature (degrees F), Pulse rate, and Respirations. It also has dropdown menus for Height Percentile, Weight Percentile, Temperature site, and Pulse rhythm. Radio buttons are present for Blood Pressure (Standard, Postural, Multiple Sites, Sequential) and Cuff size.
- Blood Pressure:** A section with a "Sequential" label and three rows for Blood Pressure #1, #2, and #3, each with a slash and "mm Hg" label.
- Time:** A section with three rows for Time #1, #2, and #3.
- Calculations:** Includes fields for Body Mass Index and Body Surface Area (m2), with checkboxes for "Converts inches/pounds to metric" and "Add BMI to chart for BMI" / "Add BSA to chart for BSA".
- Other Fields:** O2 Sat (%), Peak Flow, PF (predicted), and LMP.
- Data Entry:** A "Sign your data entry" button and a "Data entered by:" field.
- Form Management:** A list of form categories (General, Diabetes, Hypertension) with an "Add Forms" button.
- Navigation:** "Prev Form (Ctrl+PgUp)" and "Next Form (Ctrl+PgDn)" buttons.
- Footer:** A "Close" button and a status bar showing "Ready" and "Pg 1".

Key Features

Some key features of this new product are:

- Visual Design (WYSIWYG)
- Drag and Drop Functionality
- Dynamic Resizing of Items
- Improved Temporary Variable Naming
- Copy and Paste Functionality
- Multiple Document Interface
- Split View
- Container / Server Translation Functionality
- Control Improvements

Visual Design

WYSIWYG editor speeds the development of encounter forms, eliminating the need to preview or load forms to view visual display. Overlapping visibility regions can also be viewed.

Visual Form Editor - [Vital - Small.dlg]

File Edit View Insert Tools Window Help

Vital Signs - Extended

Vital Signs

Height: inches Height Percentile: %
Weight: pounds Weight Percentile: %
Temperature: degrees F Temperature site:
Pulse rate: Pulse rhythm:
Respirations:

Blood Pressure: Standard Postural Multiple Sites Sequential
Cuff size: Site:

Blood Pressure

Sequential	Time
BP #1: <input type="text"/> / <input type="text"/> mm Hg	#1: <input type="text"/>
BP #2: <input type="text"/> / <input type="text"/> mm Hg	#2: <input type="text"/>
BP #3: <input type="text"/> / <input type="text"/> mm Hg	#3: <input type="text"/>

Calculations

Body Mass Index: Body Surface Area (m2):
 Add BMI to chart Add BSA to chart
Converts inches/pounds to metric for BMI *Converts inches/pounds to metric for BSA*

O2 Sat: % Peak Flow: PF (predicted): LMP:

Sign your data entry Data entered by:

Prev Form (Ctrl+PgUp) Next Form (Ctrl+PgDn) Close

Visual Form Editor - [Vital - Small.dlg]

File Edit View Insert Tools Window Help

Vital Signs - Extended

Vital Signs

Height: inches Height Percentile: %
Weight: pounds Weight Percentile: %
Temperature: degrees F Temperature site:
Pulse rate: Pulse rhythm:
Respirations:

Blood Pressure: Standard Postural Multiple Sites Sequential
Cuff size: Site:

Blood Pressure

Postural	Position	Pulse
BP #1: <input type="text"/> / <input type="text"/> mm Hg	#1: <input type="checkbox"/> lying <input type="checkbox"/> sitting <input type="checkbox"/> standing	<input type="text"/>
BP #2: <input type="text"/> / <input type="text"/> mm Hg	#2: <input type="checkbox"/> lying <input type="checkbox"/> sitting <input type="checkbox"/> standing	<input type="text"/>
BP #3: <input type="text"/> / <input type="text"/> mm Hg	#3: <input type="checkbox"/> lying <input type="checkbox"/> sitting <input type="checkbox"/> standing	<input type="text"/>

Calculations

Body Mass Index: Body Surface Area (m2):
 Add BMI to chart Add BSA to chart
Converts inches/pounds to metric for BMI *Converts inches/pounds to metric for BSA*

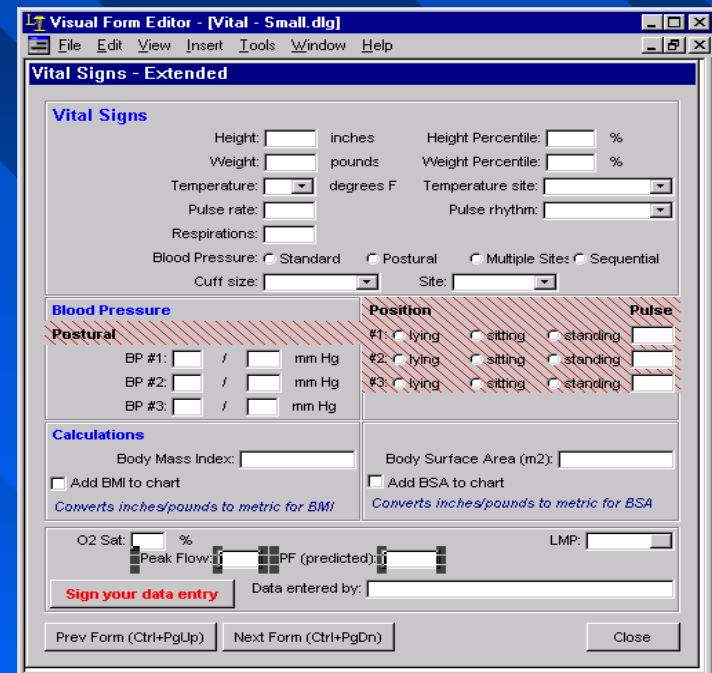
O2 Sat: % Peak Flow: PF (predicted): LMP:

Sign your data entry Data entered by:

Prev Form (Ctrl+PgUp) Next Form (Ctrl+PgDn) Close

Drag and Drop

Drag and Drop allows for the rapid development and modification of encounter forms. Moving single components or groups of components becomes the easy task of dragging and dropping them in position. The Visual Form Editor will recalculate the exact positions where the objects will be placed when displayed in Centricity®.



Resizing

Resizing of form fields is accomplished visually.

Visual Form Editor - [Vital - Small.dlg]

File Edit View Insert Tools Window Help

Vital Signs - Extended

Vital Signs

Height: inches Height Percentile: %
Weight: pounds Weight Percentile: %
Temperature: degrees F Temperature site:
Pulse rate: Pulse rhythm:
Respirations:
Blood Pressure: Standard Postural Multiple Sites Sequential
Cuff size: Site:

Blood Pressure	Position	Pulse
Postural		
BP #1: <input type="text"/> / <input type="text"/> mm Hg	#1: <input type="checkbox"/> lying <input type="checkbox"/> sitting <input type="checkbox"/> standing	<input type="text"/>
BP #2: <input type="text"/> / <input type="text"/> mm Hg	#2: <input type="checkbox"/> lying <input type="checkbox"/> sitting <input type="checkbox"/> standing	<input type="text"/>
BP #3: <input type="text"/> / <input type="text"/> mm Hg	#3: <input type="checkbox"/> lying <input type="checkbox"/> sitting <input type="checkbox"/> standing	<input type="text"/>

Calculations

Body Mass Index: Body Surface Area (m2):
 Add BMI to chart Add BSA to chart
Converts inches/pounds to metric for BMI *Converts inches/pounds to metric for BSA*

O2 Sat: % Peak Flow: PF (predicted): LMP:

Sign your data entry Data entered by:

Prev Form (Ctrl+PgUp) Next Form (Ctrl+PgDn) Close

Visual Form Editor - [Vital - Small.dlg]

File Edit View Insert Tools Window Help

Vital Signs - Extended

Vital Signs

Height: inches Height Percentile: %
Weight: pounds Weight Percentile: %
Temperature: degrees F Temperature site:
Pulse rate: Pulse rhythm:
Respirations:
Blood Pressure: Standard Postural Multiple Sites Sequential
Cuff size: Site:

Blood Pressure	Position	Pulse
Postural		
BP #1: <input type="text"/> / <input type="text"/> mm Hg	#1: <input type="checkbox"/> lying <input type="checkbox"/> sitting <input type="checkbox"/> standing	<input type="text"/>
BP #2: <input type="text"/> / <input type="text"/> mm Hg	#2: <input type="checkbox"/> lying <input type="checkbox"/> sitting <input type="checkbox"/> standing	<input type="text"/>
BP #3: <input type="text"/> / <input type="text"/> mm Hg	#3: <input type="checkbox"/> lying <input type="checkbox"/> sitting <input type="checkbox"/> standing	<input type="text"/>

Calculations

Body Mass Index: Body Surface Area (m2):
 Add BMI to chart Add BSA to chart
Converts inches/pounds to metric for BMI *Converts inches/pounds to metric for BSA*

O2 Sat: % Peak Flow: PF (predicted): LMP:

Sign your data entry Data entered by:

Prev Form (Ctrl+PgUp) Next Form (Ctrl+PgDn) Close

Document Variable Naming

Document Variable Naming supports the creation of user friendly variable naming.

The screenshot shows a 'Dropdown' dialog box with two tabs: 'Options' and 'Translation'. The 'Options' tab is active. The dialog contains the following fields and options:

- Label:** Cuff size:
- Numeric mask:** (empty dropdown)
- Maximum character length:** 0
- Height per line:** 16
- Options:**
 - Begin Suppression Block:
 - End Suppression Block:
 - Limit entry to choice list:
 - Dynamic choice list:
- Choice list (comma separated):** pedi,adult reg,large,thigh,wrist
- Connection:**
 - Type:** Temporary variable
 - Make available to other forms:**
 - Variable Name:** CUFF_SIZE

Buttons at the bottom: OK, Cancel, Apply.

Copy and Paste

Copy and Paste functionality simplifies the reusing of components within a form or between forms.

Visual Form Editor - [Vital - Small.dlg]

File Edit View Insert Tools Window Help

Vital S

Undo Ctrl+Z

Cut Ctrl+X

Copy Ctrl+C

Paste Ctrl+V

Properties

Height: [] inches Height Percentile: [] %

Weight: [] pounds Weight Percentile: [] %

Temperature: [] degrees F Temperature site: []

Pulse rate: [] Pulse rhythm: []

Respirations: []

Blood Pressure: Standard Postural Multiple Sites Sequential

Cuff size: [] Site: []

Blood Pressure

Postural

BP #1: [] / [] mm Hg

BP #2: [] / [] mm Hg

BP #3: [] / [] mm Hg

Calculations

Body Mass Index: []

Body Surface Area (m2): []

Add BMI to chart Add BSA to chart

Converts inches/pounds to metric for BMI *Converts inches/pounds to metric for BSA*

O2 Sat: [] % Peak Flow: [] PF (predicted): [] LMP: []

Sign your data entry Data entered by: []

Prev Form (Ctrl+PgUp) Next Form (Ctrl+PgDn) Close

Visual Form Editor - [Form1]

File Edit View Insert Tools Window Help

Untitled

Vital Signs

Height: [] inches Height Percentile: [] %

Weight: [] pounds Weight Percentile: [] %

Temperature: [] degrees F Temperature site: []

Pulse rate: [] Pulse rhythm: []

Respirations: []

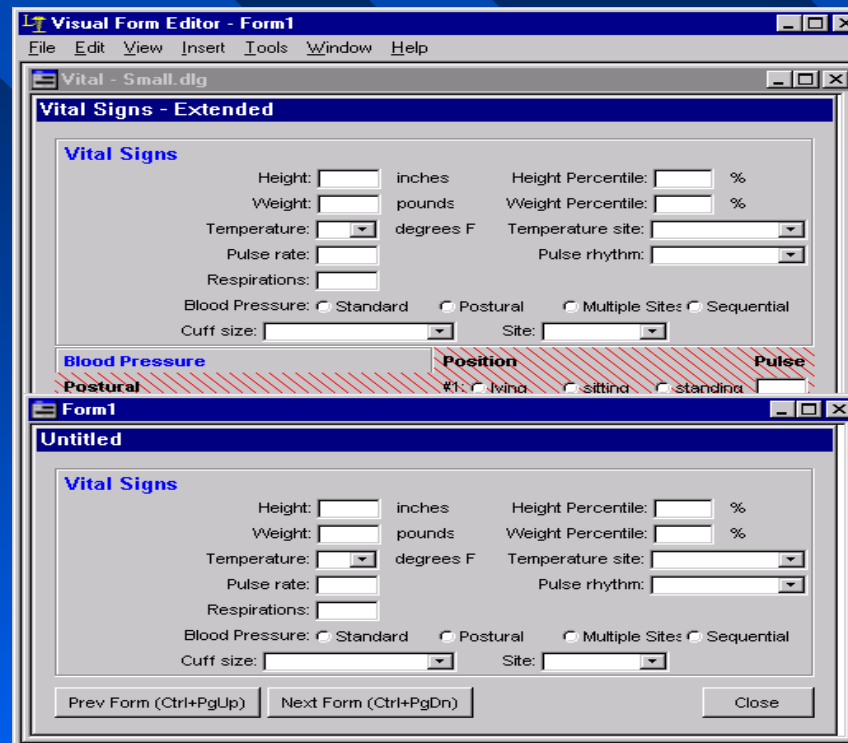
Blood Pressure: Standard Postural Multiple Sites Sequential

Cuff size: [] Site: []

Prev Form (Ctrl+PgUp) Next Form (Ctrl+PgDn) Close

Multiple Document Interface

Multiple Document Interface facilitates design of several forms simultaneously. This feature also simplifies the sharing of components between forms.



Split View

Split View permits form design and MEL code development in the same window.

The screenshot displays the Visual Form Editor interface for a form titled "Vital - Small.dlg". The window is split into two panes. The left pane shows the form design, and the right pane shows the corresponding MEL code.

Form Design (Left Pane):

- Vital Signs - Extended:** Includes fields for Height (inches), Weight (pounds), Temperature (degrees F), Pulse rate, and Respirations. It also has radio buttons for Blood Pressure (Standard, Postural, Multiple Sites, Sequential) and a Cuff size dropdown.
- Blood Pressure:** Three rows for BP #1, #2, and #3, each with mm Hg units.
- Position:** Three rows for #1, #2, and #3, each with radio buttons for lying, sitting, and standing, and a Pulse field.
- Calculations:** Fields for Body Mass Index and Body Surface Area (m2), with checkboxes to add them to a chart. Conversion notes are provided for BMI and BSA.
- Other Fields:** O2 Sat (%), Peak Flow, PF (predicted), LMP, and a "Sign your data entry" button.
- Navigation:** "Prev Form (Ctrl+PgUp)", "Next Form (Ctrl+PgDn)", and "Close" buttons.

MEL Code (Right Pane):

```
{fn CalcBMICnv(heightnow,heightprev,weightnow) {
local heightval = ''

cond
case heightnow <> ''
heightval = heightnow
case heightprev <> ''
heightval = heightprev
else
heightval = ''
endcond

if weightnow == '' or heightval == '' or val[weightnow] == 0 or va
return ''
endif

if heightval == 0 then
return str(0)
endif

return str[(weightnow / 2.2) / ((heightval / 39.4)^2)]
}}

{ fn CalcBSACnv(heightnow,heightprev,weightnow) {
local heightval = ''

cond
case heightnow <> ''
heightval = heightnow
case heightprev <> ''
heightval = heightprev
```

Container / Server Functionality

Container / Server Functionality enables the user to design forms to share the same Subjective, Objective, Assessment and Plan regions.

Control Improvements

Control Improvements have been developed which allow for greater control of form display and translation. These include:

- Suppression of entire block (including text and data display)
- Suppression of visibility region translation
- Optional display of headings for group boxes

Info

Logical Innovations, LLC
www.visualformeditor.com

Michael Thompson, MD
VP, Product Development
Michael.Thompson@VisualFormEditor.com