



FILE MAINTENANCE GENERATOR

DireXions 2024

AGENDA

HISTORY

OTHER CONSIDERATIONS

ENHANCEMENTS STEP BY STEP

- [Webster+](#) Enhancements
- Enhanced Layout

OUTPUT

See 'PxPlus on the Web
FM Generator' PDF for
more details





A SHORT HISTORY

FILE MAINTENANCE GENERATOR

FILE MAINTENANCE

- Legacy File Maintenance Generator existed in **Providex** versions (prior to PxPlus)
- New File Maintenance Generator released in PxPlus 2019 as an update to the legacy version
 - Presentation at DireXions 2019 (Las Vegas)
 - Updated wizard interface with enhanced features
 - Preview the panel
 - Templates
 - Layout Grid
 - Object Oriented maintenance object

The screenshot shows the 'File Maintenance Generator: S5555' application window. It has a tabbed interface with tabs for 'Definition', 'Options', 'Layout', 'Folders', 'Fields', and 'Key Settings'. The 'Definition' tab is active, showing fields for 'Data Dictionary', 'Maintenance Program' (set to '(Standard file maintenance)'), and 'Panel Title'. Below these are two groups of radio buttons: 'Program Type' with options 'Generic' (selected), 'Generic Object', 'Custom', and 'Custom Object'; and 'TAB on Key Field' with options 'Process when changed' (selected) and 'Force processing'. 'Generate' and 'Cancel' buttons are at the bottom right.

The screenshot shows the 'File Maintenance Wizard' window, Step 1: File Maintenance Object Definition. It features a progress bar with seven steps: Definition (1), Properties (2), Screen (3), Controls (4), Keys (5), Fields (6), and Finish (7). The 'Definition' step is highlighted. Below the progress bar, there are three sections: 'Select the file maintenance template' with a 'Template' dropdown set to 'Default'; 'Select the table from the data dictionary' with 'Table Name' and 'Panel Title' input fields; and 'Enter the maintenance object' with radio buttons for 'Create a New File Maintenance Object' and 'Use an Existing File Maintenance Object', an 'Object Name' input field, and an 'Inquiry Only' checkbox. 'Preview', 'Back', 'Next', 'Finish', and 'Cancel' buttons are at the bottom.

2019 FILE MAINTENANCE GENERATOR

SUMMARY

1. Enter Table Name from Data Dictionary
2. Select from various options to control the appearance of the panel generated
3. Layout Grid
 - Arrange Fields
 - Add Horizontal Lines and/or typed Text (subtitles)
 - Folder options
4. Preview/Review selections and Generate panel(s)

SAMPLE DEMO PANEL

PRODUCT MAINTENANCE DEMO PANEL

- Originally created with legacy Generator but edited in NOMADS afterwards
 - Image
 - List Box
 - 4 columns

2019 FILE MAINTENANCE GENERATOR

- Unable to add Image, List Box or have more than 2 columns
- Changes had to be made in NOMADS Panel Designer after panel generated
- No way to regenerate the panel to make small changes
- Unable to create HTML pages for Webster+

Invoice	Qty.	Client	Name	Price	Total
101316	10	302119	Andrews Plumbing	8.50	\$85.00
103435	5	302119	Andrews Plumbing	8.50	\$42.50
106691	5	145684	Bandera Landscaping	8.50	\$42.50
109235	25	145684	Bandera Landscaping	8.50	\$212.50
103758	5	970883	Bandera Nursery	8.50	\$42.50
109877	5	970883	Bandera Nursery	8.50	\$42.50
105800	10	859267	Bandera Securites	8.50	\$85.00
102155	10	505590	Bastrop Oxygen Rentals	8.50	\$85.00

YTD Qty Sold	YTD Sales	Prior Year Sales	Prior Year Sold
0	0.00	0.00	0

A photograph of the Tower Bridge in London, showing its two stone towers and blue suspension cables. The bridge is partially open, with the walkways raised. The River Thames is visible in the foreground with a few boats. The sky is overcast with grey clouds. A large red banner with white text is superimposed over the middle of the image.

OTHER CONSIDERATIONS

NON-NOMADS CONSIDERATIONS

NOT USING NOMADS?

The File Maintenance Generator was developed as a NOMADS tool

BUT

GOOD NEWS! It can be used outside of a NOMADS development environment

- Panels created could still be PROCESSEd
- HTML pages generated for Webster+

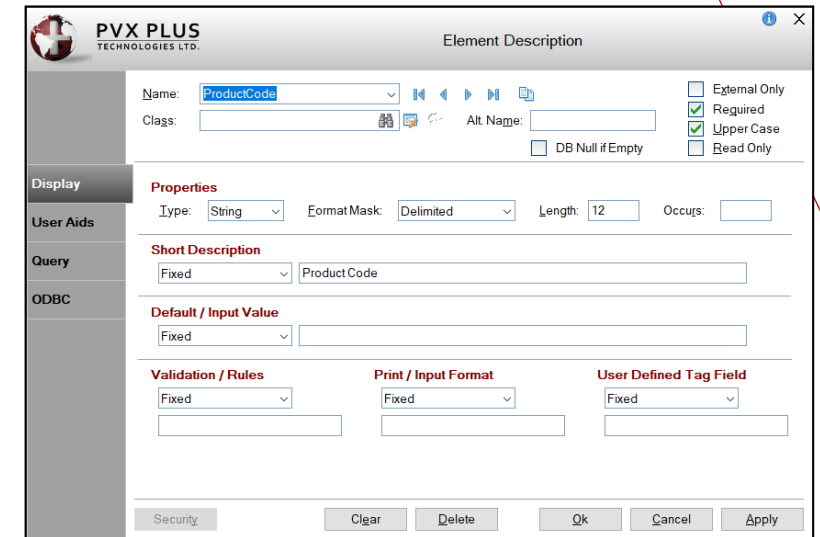
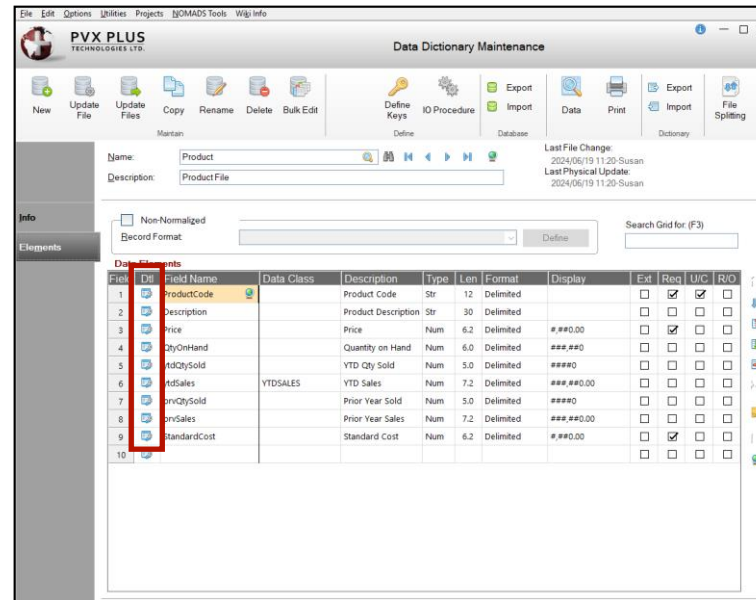
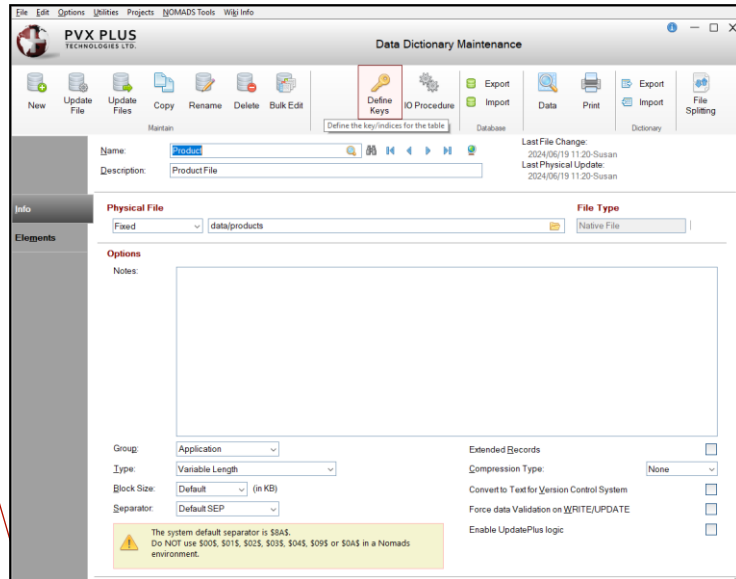
HOWEVER

Data File **MUST** be defined in Data Dictionary Maintenance

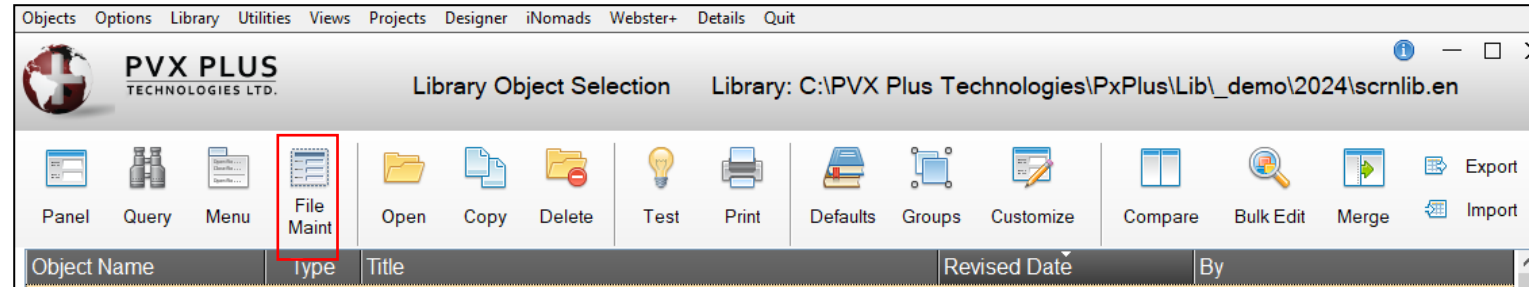
DATA DICTIONARY

DATA DICTIONARY MAINTENANCE (dd in command mode)

- Used by the Generator for Descriptions (prompt), Lengths, Formats, Data Classes, etc.

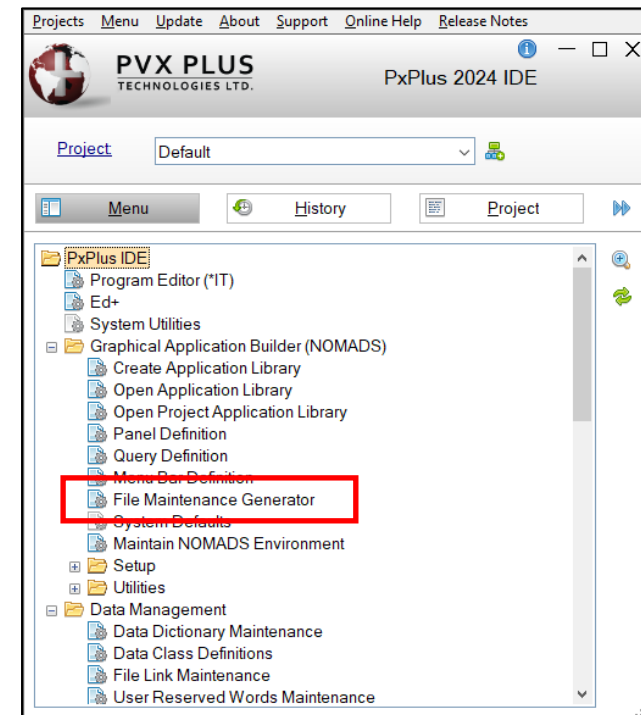


RUNNING THE GENERATOR



RUNNING THE FILE MAINTENANCE GENERATOR

- Traditionally, accessed from the NOMADS Library Object Selection dialog
- Can now also be accessed from an IDE task
 - Expand the **Graphical Application Builder (NOMADS)** node on the tree view
 - Select the **File Maintenance Generator** task



REGENERATE PANELS

PANELS MAY NOW BE REGENERATED

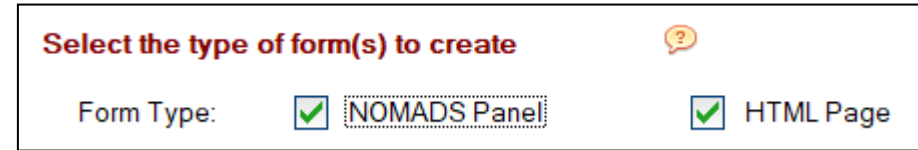
- All settings and information about the panel are saved in the library file
 - Special records with "T" as the 13th character in the key value
- Once recalled, all settings are restored
- Further changes may be made

Changes made outside of the File Maintenance Generator will be lost

GENERATE WEBSTER+ PAGES

WEBSTER+ PAGES MAY NOW BE CREATED

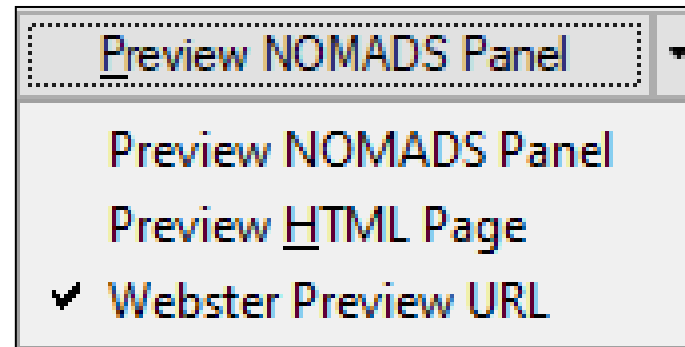
- Form Type: Select **HTML Page**
 - If only HTML Page Form Type is selected, many NOMADS-only inputs are hidden in the subsequent Generator steps
 - Webster+ related settings are disabled unless the HTML Page option is selected
- NOMADS panels are still created in the screen library data file because the *regenerate* records are stored there
- **Preview** button is now a drop list button



Select the type of form(s) to create 

Form Type: NOMADS Panel HTML Page

http://server_address:port#



Preview NOMADS Panel ▼

Preview NOMADS Panel

Preview HTML Page

✓ Webster Preview URL

LIBRARY OBJECT SELECTION

LIBRARY OBJECT SELECTION DIALOG

- Added **Webster+** menu
 - Define Webster+ Pages Directory
c:\webster2024\pages
 - Webster Preview URL
http://127.0.0.1:8088
- Type column (Dh)
 - Indicates a File Maintenance generated panel that also has a generated HTML page for use in Webster+

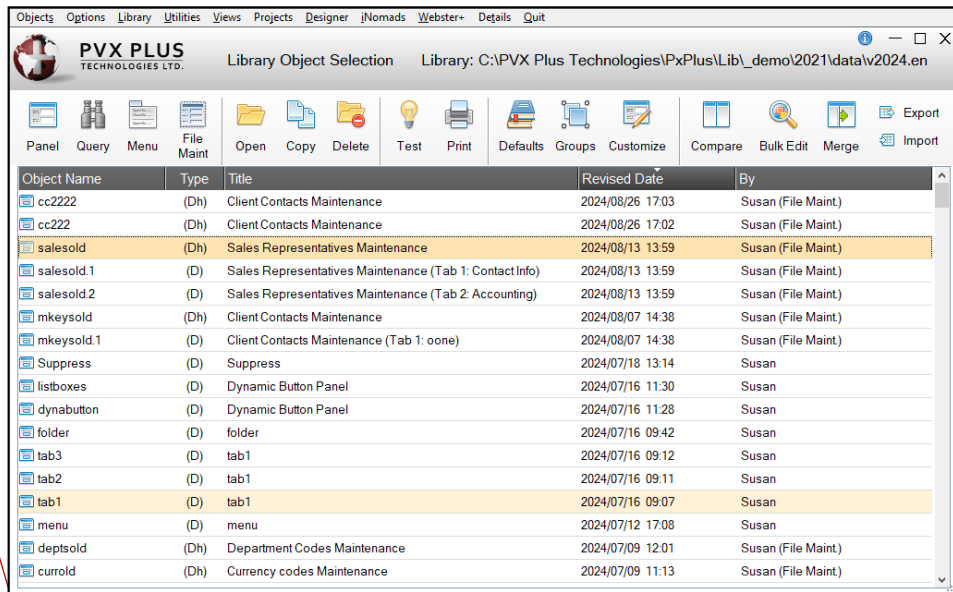
Objects Options Library Utilities Views Projects Designer iNomads **Webster+** Details Quit

PVX PLUS TECHNOLOGIES LTD. Library Object Selection Library: C:\PVX P 2021\data\v2024.en

Panel Query Menu File Maint Open Copy Delete Test Print Defaults Groups Customize Compare Bulk Edit Merge Export Import

Object Name	Type	Title	Revised Date	By
demo	(Dh)	Sales Representatives Maintenance	2024/06/14 10:45	Susan (File Maint.)
embedme	(D)	embedme	2024/06/14 10:35	Susan
menu	(D)	menu	2024/06/11 13:56	Susan
menudf	(D)	menu	2024/05/28 15:01	Susan
salesov	(Dh)	Sales Representative Stats	2024/05/28 09:08	Susan (File Maint.)
menuvc	(D)	menu	2024/05/27 15:36	Susan
third	(Dh)	Sales Representatives Maintenance	2024/05/24 16:20	Susan (File Maint.)
salespage	(Dh)	Sales Representative Stats	2024/05/24 15:29	Susan (File Maint.)
testbuild	(Dh)	Client Master File Maintenance	2024/05/23 08:43	Susan (File Maint.)
testbuild.1	(D)	Client Master File Maintenance (Tab 1: Address)	2024/05/23 08:43	Susan (File Maint.)
testbuild.2	(D)	Client Master File Maintenance (Tab 2: Accounting)	2024/05/23 08:43	Susan (File Maint.)
easy	(Dh)	Department Codes Maintenance	2024/05/22 17:01	Susan (File Maint.)
sales_lookup	(Dh)	Sales Representative Lookup Page	2024/05/22 15:31	Susan (File Maint.)
salesrepinv	(Q)	Lookup for Invoice header	2024/05/22 14:16	Susan
salesov2	(Dh)	Sales Reps Overview	2024/05/22 14:04	Susan (File Maint.)
AnnualSales	(Q)	Lookup for Sales Representatives	2024/05/22 09:01	Susan
nonfm2	(D)	Sample Non-File Maintenance Panel	2024/05/22 08:55	Susan (File Maint.)
nonfmold	(Dh)	this is the Page Header	2024/05/21 14:41	Susan (File Maint.)
7365	(D)	Sales Representatives Maintenance	2024/05/21 12:16	Susan

ACCESS TO FM OBJECTS



RECALLING A FILE MAINTENANCE OBJECT

- Double-clicking a File Maintenance generated object in Library Object Selection now launches the Generator
 - Allows changes to be made to the previously generated form
- Use the **Open** toolbar button to open the panel in the NOMADS Panel Designer

OR

- Press the new **Screen Designer** button on Step 1 of the Generator



GENERATOR ENHANCEMENTS STEP BY STEP

GENERATOR STEPS

[Welcome Panel](#)

[Step 1: Object Definition](#)

[Step 2: Object Properties](#)

[Step 3: Screen Layout](#)

[Step 4: Control Settings](#)

[Step 5: Key Settings](#)

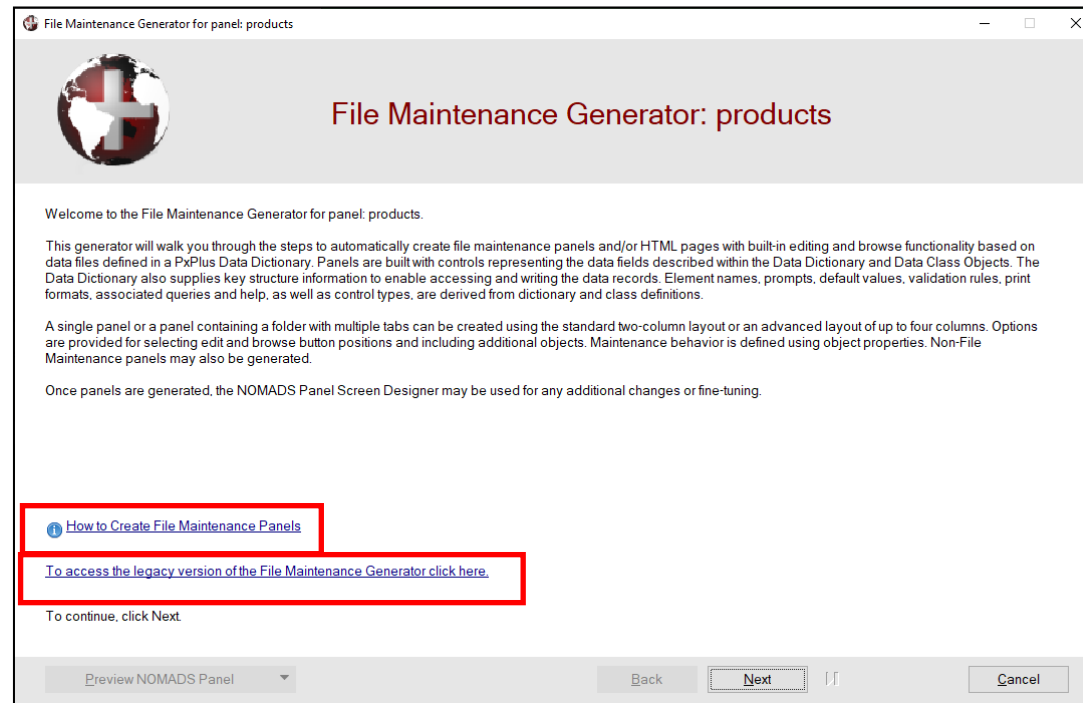
[Step 6: Field Layout](#)

[Step 7: Completion](#)

WELCOME PANEL

WELCOME PANEL

- Only appears when creating a new panel
- Unchanged from original version except for text
 - Help Link
 - Legacy version



STEP 1: OBJECT DEFINITION

OBJECT DEFINITION

- **Screen Designer** button
 - Available for previously generated panels
 - Shortcut to editing the panel in NOMADS Panel Designer
- **Reset Template** checkbox
 - Unlocks File Maintenance Template input on previously generated panels
- Two new Form Types
 - **HTML Page** (Webster+)
 - **Non-File Maintenance Form**
 - With and without entering a Table Name

File Maintenance Generator for panel: products

Step 1: File Maintenance Object Definition

1 Definition 2 Properties 3 Screen 4 Controls 5 Keys 6 Fields 7 Finish

Select the file maintenance template and layout format

File Maintenance Template: None Reset Template Layout: Enhanced

Select the type of form(s) to create

Form Type: NOMADS Panel HTML Page Non-File Maintenance Form

Select the table from the data dictionary

Table Name: Product Panel Title: Product File Maintenance Panel Title Symbol:

Enter the maintenance object

File Maintenance Object: Use the Standard File Maintenance Object Object Name: *win/fm_maint.pvc Inquiry Only

Enter the optional HTML interface program

Interface Program:


Preview NOMADS Panel Back Next Finish Cancel

MAINTENANCE OBJECT

FILE MAINTENANCE OBJECT

- Redesigned entry of the [File Maintenance Object](#)

Enter the maintenance object

File Maintenance Object:  

Object Name:

- Use the Standard File Maintenance Object
- Create a New File Maintenance Object
- Use an Existing File Maintenance Object

- Standard Object will be used by default
- Prevents an object for every FM panel since the properties will likely be the same over an application
- New or Existing objects can have different Object Properties set

STEP 2: OBJECT PROPERTIES

OBJECT PROPERTIES

- No changes
- All inputs disabled when using an existing file maintenance object

File Maintenance Generator for panel: products

Step 2: File Maintenance Object Properties

1 Definition 2 Properties 3 Screen 4 Controls 5 Keys 6 Fields 7 Finish

NOTE: If using an existing file maintenance object, these values are already defined as indicated within the object and are therefore not editable.

Select the update behavior

Select the record locking behavior when a record is updated.

Review Before Write Lock Record No Record Lock

Select the screen behavior

Select the screen behavior on a new record. Select the screen behavior after writing or deleting a record.

Do Not Clear Fields Auto-Clear All Fields Do Not Clear Fields Auto-Clear All Fields

Select the screen behavior for saving changes.

Standard Save Behavior Auto-Save Changes

Select record message options

Select the messages that will display when a record is created or when a record is deleted.

Confirm New Record Acknowledge Writes Confirm Delete Request Acknowledge Deletes

Preview NOMADS Panel [v] [Back] [Next] [Finish] [Cancel]

FILE MAINTENANCE PROPERTIES

8 FM RELATED NOMADS PROPERTIES (%NOMADS'property\$)

- FM_Update_Option\$="R/L/N"
- FM_New_Option\$="0/1"
- FM_Clear_Option\$="0/1"
- FM_Auto_Save_Option\$="0/1"
- FM_Confirm_New_Rec\$="0/1"
- FM_Acknowledge_Writes\$="0/1"
- FM_Skip_Confirm_Deletes\$="0/1"
- FM_Skip_Acknowledge_Deletes\$="0/1"

File Maintenance Generator for panel: products

Step 2: File Maintenance Object Properties

1 Definition 2 Properties 3 Screen 4 Controls 5 Keys 6 Fields 7 Finish

NOTE: If using an existing file maintenance object, these values are already defined as indicated within the object and are therefore not editable.

Select the update behavior

Select the record locking behavior when a record is updated.

Review Before Write Lock Record No Record Lock

Select the screen behavior

Select the screen behavior on a new record.

Do Not Clear Fields Auto-Clear All Fields

Select the screen behavior after writing or deleting a record.

Do Not Clear Fields Auto-Clear All Fields

Select the screen behavior for saving changes.

Standard Save Behavior Auto-Save Changes

Select record message options

Select the messages that will display when a record is created or when a record is deleted.

Confirm New Record Acknowledge Writes Confirm Delete Request Acknowledge Deletes

Preview NOMADS Panel Back Next Finish Cancel

- Can be set to over-ride values in standard object

STEP 3: SCREEN LAYOUT

File Maintenance Generator for panel: products

Step 3: File Maintenance Screen Layout

1 Definition 2 Properties 3 Screen 4 Controls 5 Keys 6 Fields 7 Finish

Define screen position

Position: Centered Column: 5 Line: 5

Location of browse buttons

Beside Key Library Panel Position Bottom Left Tab Stops

Location of action buttons

Bottom Right Library Panel Position Bottom Right Tab Stops

Optional embedded panel

Library Panel Position Top Left

Optional Include HTML page

Position Top

Webster+ Template

Additional Options Panel Notes

Additional Buttons

Preview NOMADS Panel Back Next Finish Cancel

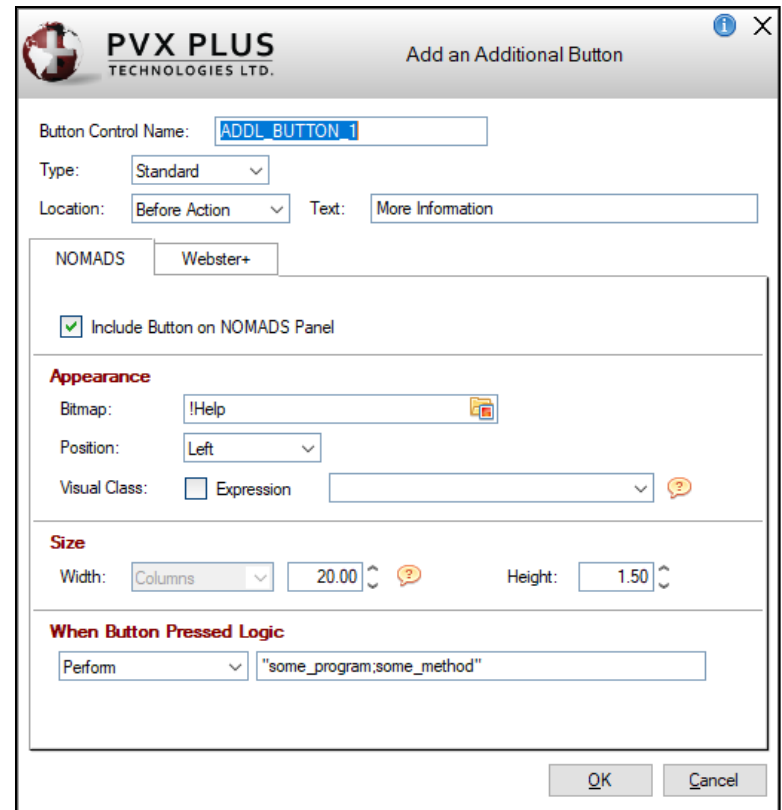
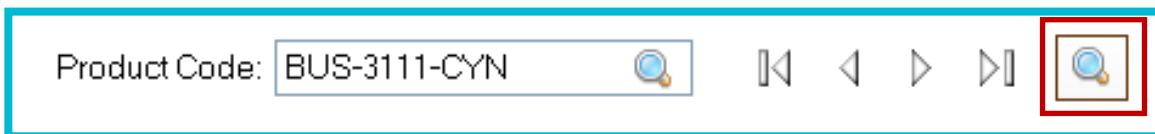
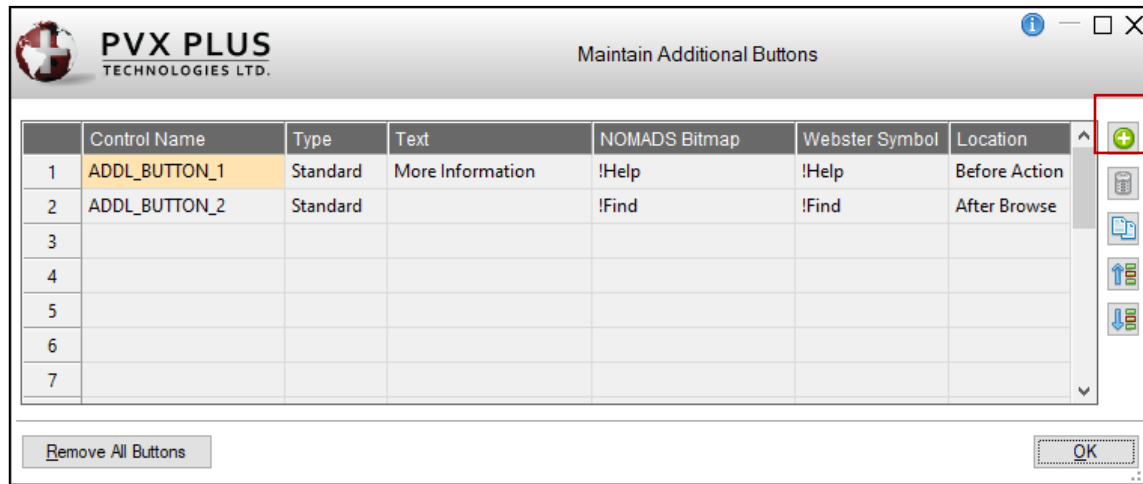
SCREEN LAYOUT

- **Panel Notes**
 - Enter notes to be written to the panel header record
- **Include HTML Page**
 - Position (Top or Bottom)
- **Webster+ Template**
- **Additional Buttons**

ADDITIONAL BUTTONS

MAINTAIN ADDITIONAL BUTTONS

- Up to 20 buttons may be added before/after browse buttons or action buttons



STEP 4: CONTROL SETTINGS

File Maintenance Generator for panel: demo

Step 4: File Maintenance Control Settings

1 Definition 2 Properties 3 Screen 4 Controls 5 Keys 6 Fields 7 Finish

Select field and screen layout options

Prompt Alignment: Append Colon on Prompt Tab Sequence:

Required Fields: Vertical Spacing:

SHOW Visual Class: Expression

Select font options

Select font options that will be applied to fonted text controls other than field prompts. Fonted text may be added to the panel by simply typing the text directly into the screen layout in the required position when on Step 6 (Fields) of the generator.

Font: Size:

Alignment:

Visual Class: Expression

Select full horizontal line option

Define the vertical spacing to be applied before and after each horizontal line. Horizontal lines may be added to the panel by right-clicking on the layout grid on Step 6 (Fields) of the generator and selecting 'Add Horizontal Line' from the popup menu.

Vertical Spacing:

Preview NOMADS Panel

CONTROL SETTINGS

- Added **SHOW Visual Class**
- Field in Data Dictionary has a Data Class using [Extended Validation](#)

Validation

Extended Validation

Use Extended Validation

Table:

Key:

Descriptive Field:

Populate All Fields

Error if Invalid:

Logic if not found:

Commission Acct: **Commission Revenue**

STEP 5: KEY SETTINGS

KEY SETTINGS

- Ability to define a **Record Query** when there is a multi-part key
 - Inputs for **Screen Library**, **Panel**, **Bitmap** and **HTML Symbol**

File Maintenance Generator for panel: mkeysold

Step 5: File Maintenance Key Settings

1 Definition 2 Properties 3 Screen 4 Controls 5 Keys 6 Fields 7 Finish

NOTE: The following options do not apply for single-segment keys or Non-File Maintenance Forms.

Primary Key Field(s) ClientId+Description

Record Query Library: scmlib.* Panel: CONTACTS.QRY
Bitmap: !Binoculars HTML Symbol: !Find

Fixed Key Segment
Indicate if the data being maintained includes some sort of a fixed value (such as a company code for example) in the first segment of the key. If so, indicate whether this value should be disabled or hidden and enter the value.

Lock First Segment Behavior: Disable Locked Segment Hide Locked Segment

Value to Pre-load: Fixed Expression

Cross Reference Key Field
Indicate if there is a unique, single segment key that is to be maintained automatically.

Field that Contains 'Reference Key':

Preview NOMADS Panel Back Next Finish Cancel



Lookup for Client Contacts

Find text: Match column:

Client ID Description Contact Type Contact Name

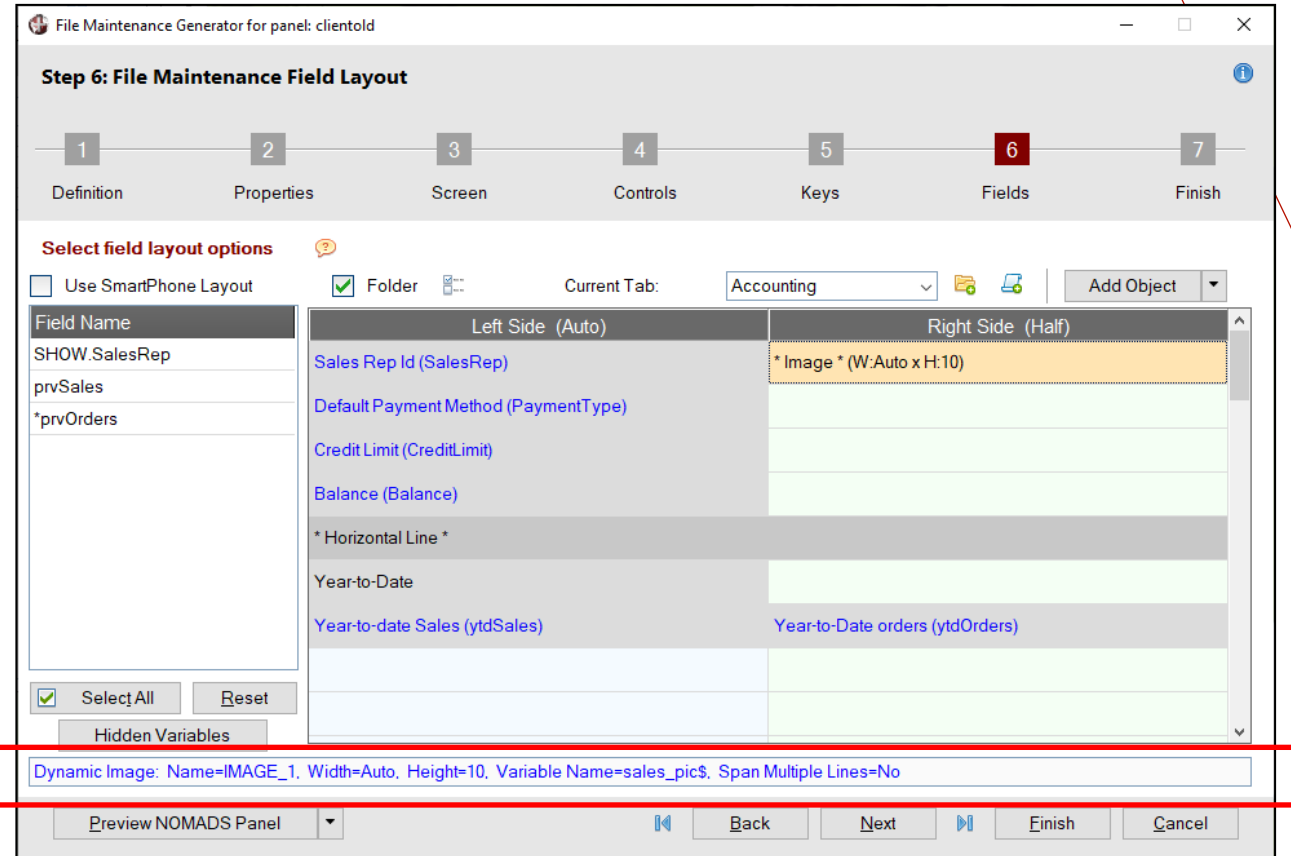
054703	Reception	B	Joseph Walls
111662	This is where I want to send bills	B	Teddy
145684	Contact Description	B	Eloise Bandera

Select Close

STEP 6: FIELD LAYOUT

FIELD LAYOUT

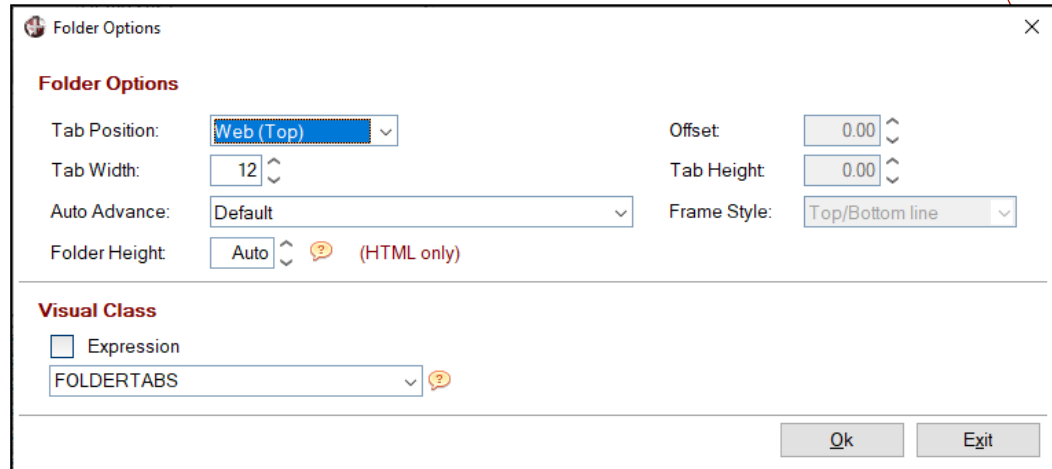
- Drag and Drop Fields onto Layout Grid
- Type Text in layout grid cells
- Create Horizontal Lines
- Section Sizes
- Added **Status Bar**
 - Provides more information about selected layout grid cell



FIELD LAYOUT – FOLDER OPTIONS

FOLDER OPTIONS

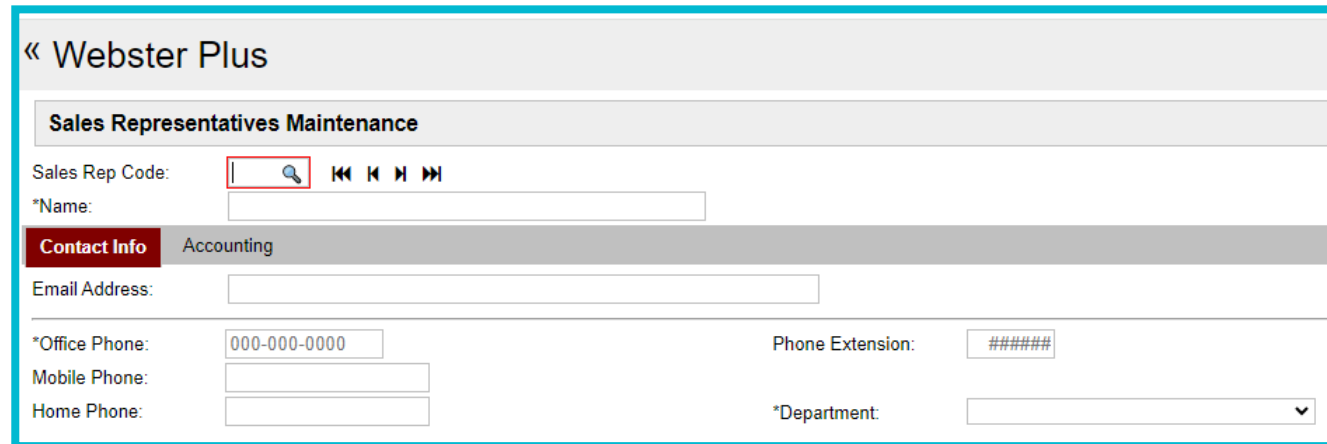
- New **Web (Top)** Tab Position on Folder Options dialog
- Will use Top position on NOMADS dialog



The screenshot shows the 'Folder Options' dialog box with the following settings:

- Folder Options**
 - Tab Position: Web (Top)
 - Tab Width: 12
 - Auto Advance: Default
 - Folder Height: Auto (HTML only)
 - Offset: 0.00
 - Tab Height: 0.00
 - Frame Style: Top/Bottom line
- Visual Class**
 - Expression
 - FOLDERTABS

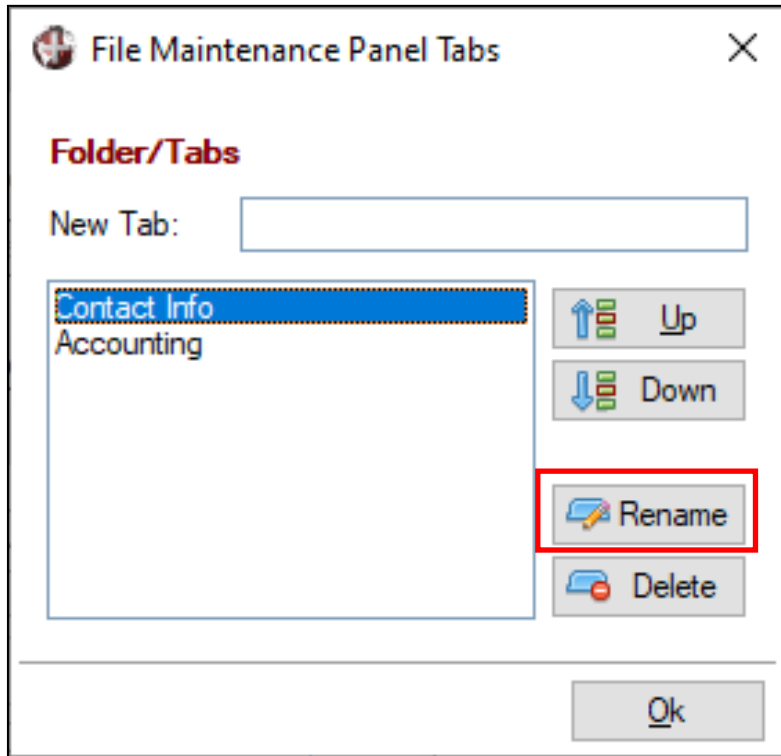
Buttons: Ok, Exit



The screenshot shows the 'Webster Plus' application interface with the following elements:

- Navigation: « Webster Plus
- Section: Sales Representatives Maintenance
- Fields:
 - Sales Rep Code: [] [Search] [Navigation]
 - *Name: []
 - Accounting: []
 - Email Address: []
 - *Office Phone: 000-000-0000
 - Phone Extension: #####
 - Mobile Phone: []
 - Home Phone: []
 - *Department: []

FIELD LAYOUT – PANEL TABS



RENAME TABS

- **Rename** button added to [File Maintenance Panel Tabs](#) panel
 - Can now rename a folder tab without deleting it and starting over

FIELD LAYOUT - HYPERLINKS

HYPERLINKS

- Select **Add Object/Add or Edit a Hyperlink Prompt** from the layout grid popup menu or press the **Add Object** button and select **Hyperlink Prompt**
- Transform a prompt into a hyperlink that opens another panel

PVX PLUS
TECHNOLOGIES LTD.

Add a Hyperlink Prompt

Make the 'SalesRepCode' prompt a hyperlink to the following NOMADS panel.

Hyperlink Panel

Library: v2024 Panel: SALESREPS

Make the 'SalesRepCode' prompt a hyperlink to the following HTML page for Webster+.

HTML Page: salesreps

Remove Hyperlink OK Cancel

[Sales Rep Code \(SalesRepCode\)](#)

[Sales Rep Code:](#)

Sales Representatives Maintenance

Sales Rep Code: [input]

Name: [input]

Email Address: [input]

Mobile Phone: 000-000-0000 Phone Extension: [input]

Home Phone: [input]

Department: [input]

Accounting Commissions

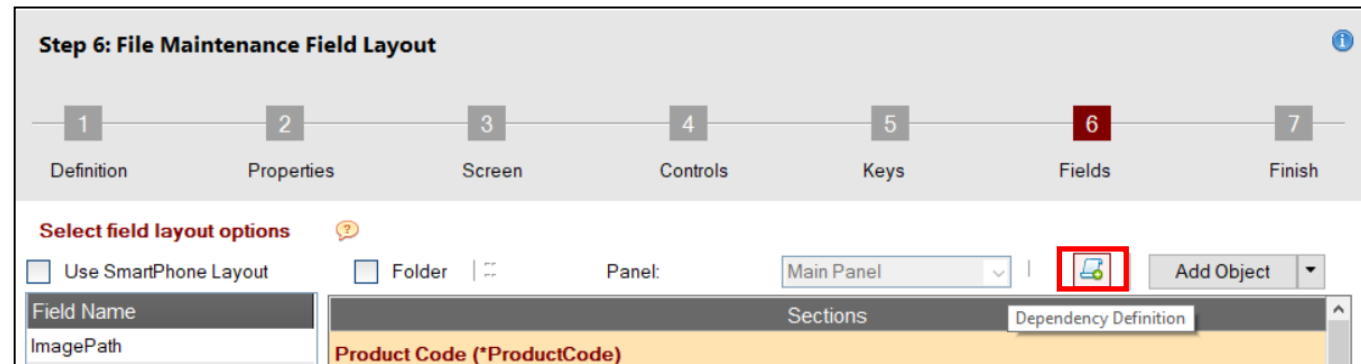
YTD Orders: [input] Sales Amt: [input] 0.00 Prior Years Orders: [input] 0 Prior Year Sales: [input] 0.00

Write Delete Clear Exit

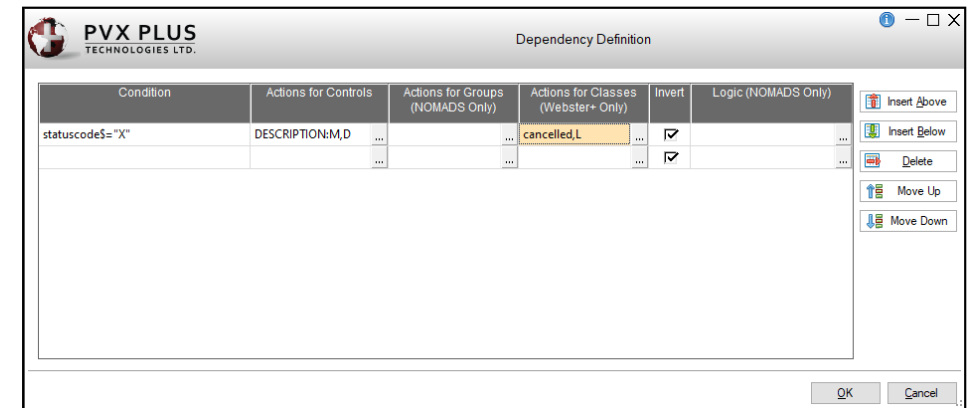
DEPENDENCY DEFINITIONS

DEPENDENCIES

- Similar to defining [Dependency Definitions](#) in the NOMADS Panel Designer



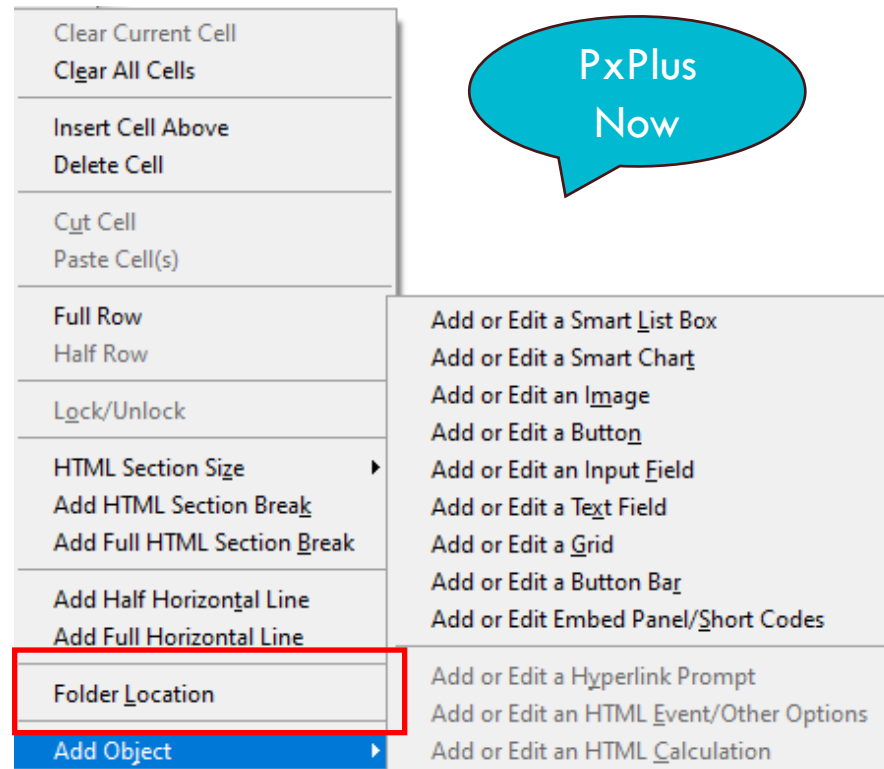
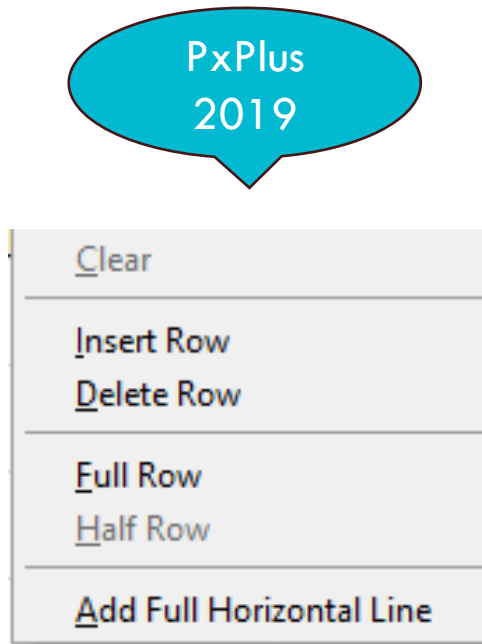
- Enable/Disable, Show/Hide, Lock/Unlock controls
- Some columns affect NOMADS panel only
- New column for Webster+ Classes



LAYOUT GRID POPUP MENUS

LAYOUT GRID POPUPS

- Additions to *Grid Popup Menu* (right-click on layout grid)
- *Folder Location* can now be defined



ADD OBJECTS

ADDITIONAL OBJECTS

- Ability to add objects to panels
 - [Smart List Boxes](#)
 - [Smart Charts](#)
 - [Image](#)
 - [Button](#)
 - [Input Fields](#)
 - [Text](#)
 - [Button Bar](#)
 - [Grid](#) (Webster+ only)
 - [Embedded Panels](#) (NOMADS only)
 - [Short Codes](#) (Webster+ only)
- All objects may also be added to Non-File Maintenance forms

SMART LIST BOX

ADD A SMART LIST BOX

- List Box Type
 - Report View
 - Tree View
- Uses previously defined Queries

PVX PLUS TECHNOLOGIES LTD. Add a Smart List Box

List Box Control Name: LIST_BOX_1 List Box Type: Report View

Query Selection Select Query Fixed Library: scrib.* Panel: CLIENT.Q Define

Size Width: Columns Auto Height: 10.00 **Visual Class** Expression

Trigger Variables and Controls Variables: Add Variable Selected Triggers: SALESREPCODES
Controls: PHONEEXTENSIONS, PHONENUMBERS, PRINTERS, PRVCOMMISSION, PRVORDERS, PRVSALES, PRVCOMMISSION Add Control Remove

Conditional Trigger Test

Options Clear control when all Triggers are null Suppress graphic row/column displays
 Hide control during load

Load Logic Pre-Load Logic: Ignore Post-Load Logic: Ignore

Webster+ HTML Event: Class: Other Options:

Span Multiple Lines OK Cancel

Client ID	Name	Address	City	State/Province	Country
302119	Andrews Plumbing	141 Bright Treasure Farms	Denfield	Ontario	Canada
145684	Bandera Landscaping	8189 Round Expressway	Concord	Ontario	Canada
970883	Bandera Nursery	8198 Dewy Wagon Maze	Caribou	Manitoba	Canada
859267	Bandera Securities	8445 Pleasant Panda Grove	Quesnel	British Columbia	Canada
505590	Bastrop Oxygen Rentals	8038 Colonial Path	Perth	Ontario	Canada
834320	Bee Fish and Chips	4180 Lost Mount	Ramsey	Ontario	Canada
178896	Bee Grocery	516 Heather Pond Lookout	Keswick	Ontario	Canada
789006	Bee Interior Decorations	1861 Shady Point	Denbigh	Ontario	Canada

SMART CHART

PVX PLUS
TECHNOLOGIES LTD.

Add a Smart Chart

Chart Control Name: CHART_1

Chart Selection: Select Chart Fixed Library: scmlib.* Panel: Salebydept.Q Define

Chart Name: RevenueByDeptType Define Ignore Query Chart Format

Size: Width: Columns Auto Height: 10.00 Visual Class: Expression

Trigger Variables and Controls: Variables: Add Variable Selected Triggers: DEPARTMENTS

Controls: COMMISSIONRATE, EMAILS, GLCOMMISSIONS, HOMENUMBERS, IMAGEPATHS, MODIENUMBER Add Control Remove Clear control when all Triggers are null

Conditional Trigger Test

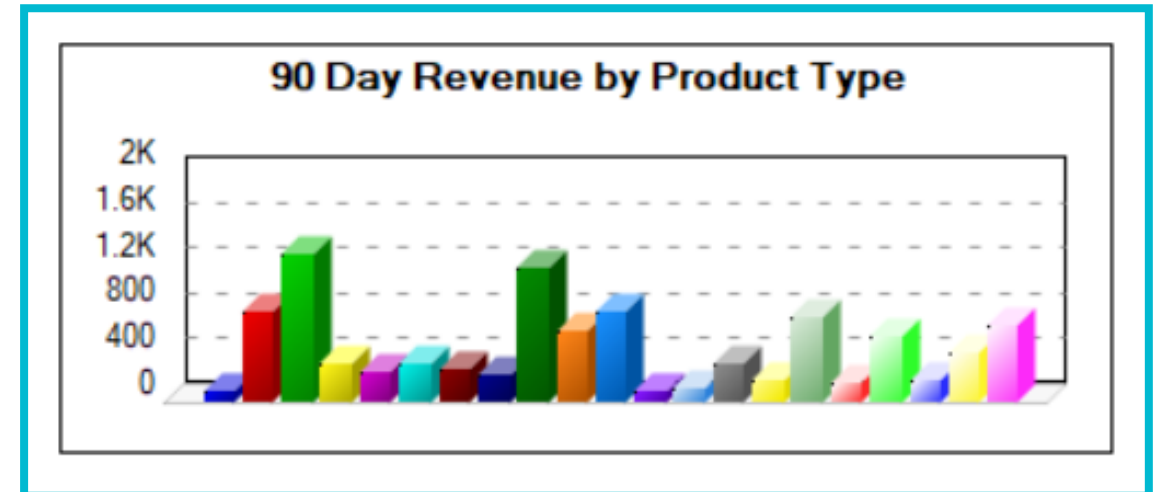
Load Logic: Pre-Load Logic: Ignore Post-Load Logic: Ignore

Webster+ HTML: Event: Class: Other Options:

Span Multiple Lines OK Cancel

ADD A SMART CHART

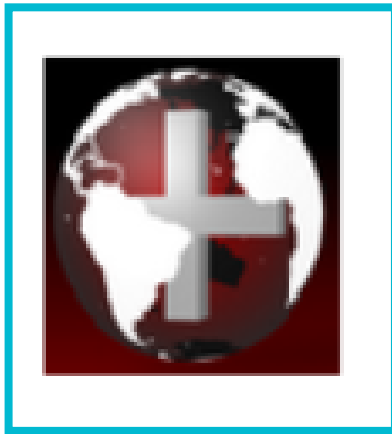
- Uses previously defined Charts
 - Pie, Bar, Column or Line charts



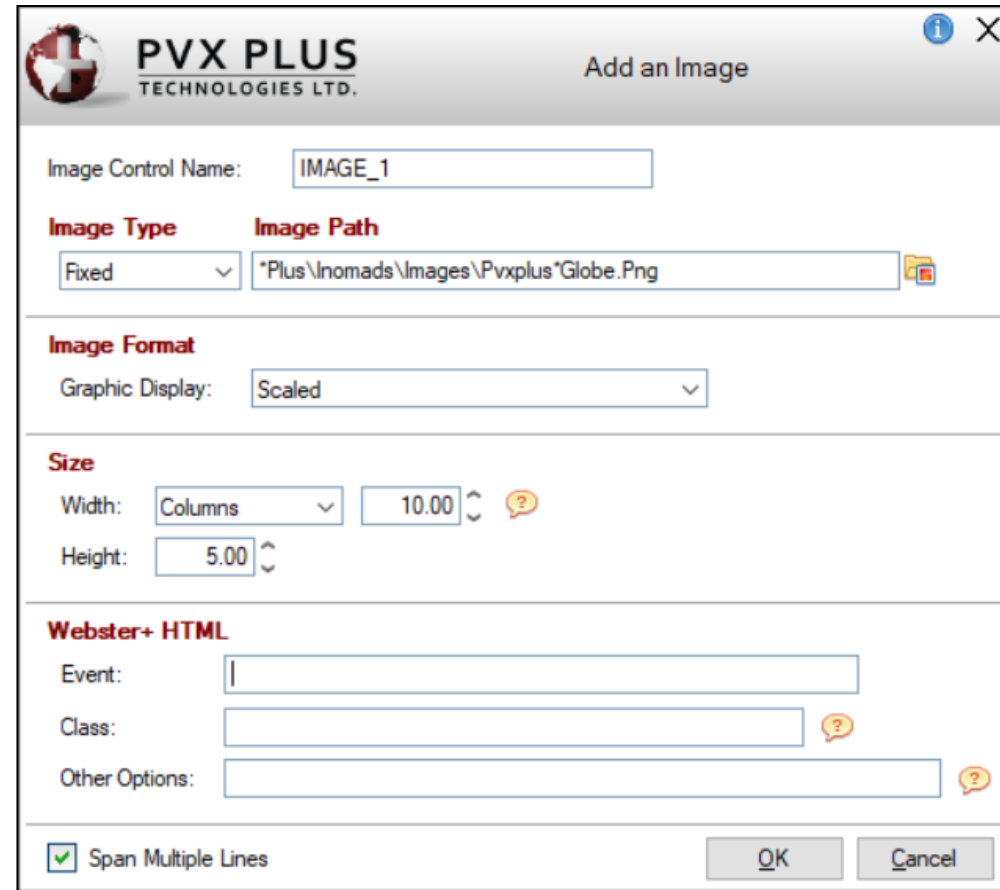
IMAGE

ADD AN IMAGE

- Graphic Display Options
 - Asis, Centered, Scaled, Tiled, Halftone, etc.



Webster+ Security must be enabled



PVX PLUS
TECHNOLOGIES LTD.

Add an Image

Image Control Name:

Image Type **Image Path**

Fixed

Image Format

Graphic Display:

Size

Width: ?

Height:

Webster+ HTML

Event:

Class: ?

Other Options: ?

Span Multiple Lines

BUTTON

ADD A BUTTON

- Button Types
 - Standard
 - Hyperlink
 - Drop List
- Folder Tabs
 - NOMADS
 - Webster+

PVX PLUS TECHNOLOGIES LTD. Add a Button

Button Control Name:

Type: Text:

NOMADS Webster+

Include Button on NOMADS Panel

Appearance

Bitmap:

Position:

Visual Class: Expression

Size

Width: Height:

When Button Pressed Logic

PVX PLUS TECHNOLOGIES LTD. Add a Button

Button Control Name:

Type: Text:

NOMADS Webster+

Include Button on Webster+ Page

Appearance

Symbol:

Position:

HTML Class:

Size

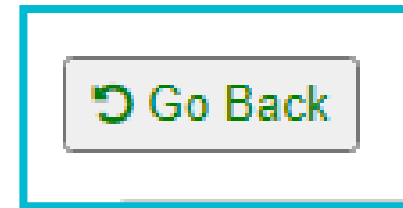
Width: Height:

HTML

Event:

Other Options:

Span Multiple Lines



INPUT FIELD

ADD AN INPUT FIELD

- Based on NOMADS Panel Designer Multi-Line definition
 - Additional Webster+ folder tab

The screenshot shows the 'Add an Input Field' dialog box in PVX PLUS. The 'Webster+' tab is selected, displaying various configuration options for the input field. The 'Name' is 'INPUT_FIELD_1' and the 'Prompt' is 'Comments'. The 'Initial Value' is set to 'Fixed'. The 'Input Length' and 'Input Format' are also set to 'Fixed'. The 'Position' is set to Column: 0.00, Line: 0.00, Width: 45.00, and Height: 2.00. The 'Attributes' section includes 'Tab Stop' (checked), 'Initially Disabled', 'Numeric', and 'Initially Hidden'. The 'Span Multiple Lines' checkbox is checked. The 'OK' and 'Cancel' buttons are at the bottom.

The screenshot shows the 'Add an Input Field' dialog box in PVX PLUS. The 'HTML' tab is selected, displaying the HTML configuration options. The 'Name' is 'INPUT_FIELD_1' and the 'Prompt' is 'Comments'. The 'Class' is empty. The 'Event' is empty. The 'Calculation' is set to '5'. The 'Other Options' are empty. The 'OK' and 'Cancel' buttons are at the bottom.

The screenshot shows a web browser displaying a 'Comments:' label followed by a large, empty text input field. The input field is highlighted with a blue border.

TEXT

ADD TEXT

- More flexibility than typing text into the layout grid cell
- Fixed, Expression, Message Library Reference/HTML

NOMADS

The screenshot shows the 'Add Text' dialog box for the NOMADS panel. The 'Text Control Name' is 'ADDED_TEXT_1'. The 'NOMADS' tab is selected. The 'Include Text on NOMADS Panel' checkbox is checked. Under the 'Text' section, the 'Fixed' dropdown is selected, and the text 'Heading Text' is entered. Under the 'Visual Class' section, the 'Expression' checkbox is unchecked, and '*SUBTITLE' is selected in the dropdown. Under the 'Size' section, the width is set to 'Columns' and 'Auto', and the height is '2.00'. The 'Span Multiple Lines' checkbox is checked at the bottom.

Heading Text

Heading Text

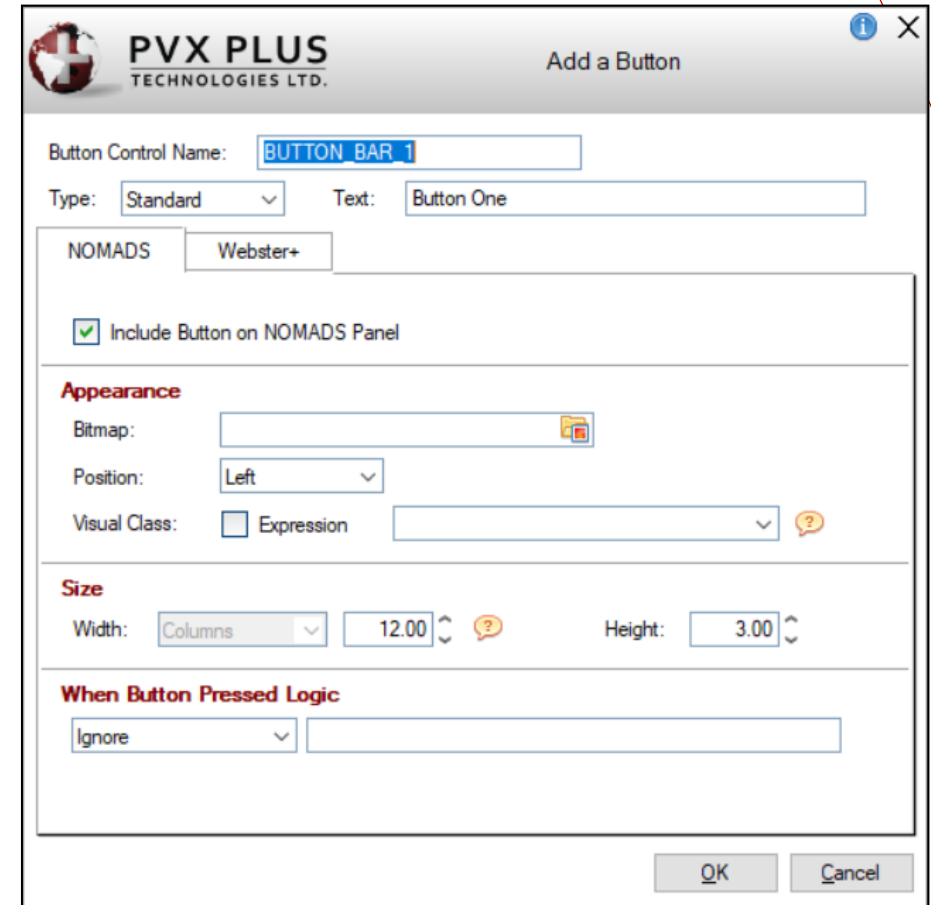
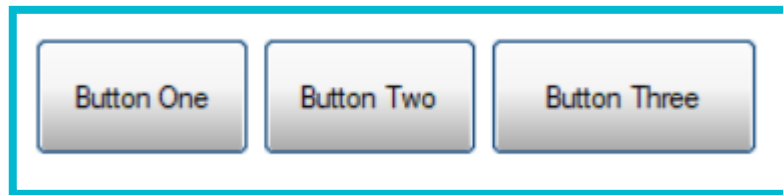
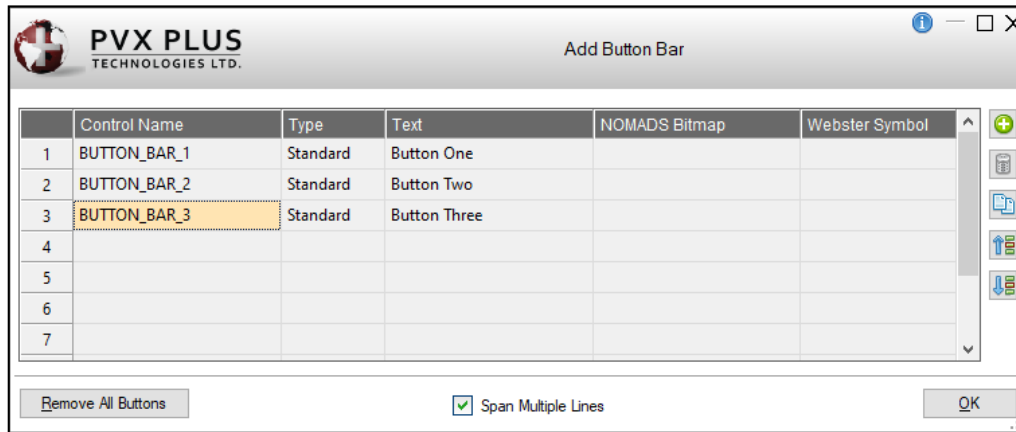
WEBSTER+

The screenshot shows the 'Add Text' dialog box for the WEBSTER+ panel. The 'Text Control Name' is 'ADDED_TEXT_1'. The 'Webster+' tab is selected. The 'Include Text on Webster+ Page' checkbox is checked. Under the 'Text' section, the 'HTML' dropdown is selected, and a rich text editor is visible with the text 'Heading Text'. The rich text editor includes a menu with options like File, Edit, Insert, View, Format, and Table, and a toolbar with icons for bold, italic, underline, and alignment. Below the editor, it shows 'P » SPAN' and '2 WORDS POWERED BY TINY'. Under the 'HTML' section, there are fields for 'Event:' and 'Other Options:'. The 'Span Multiple Lines' checkbox is checked at the bottom.

BUTTON BAR

ADD BUTTON BAR

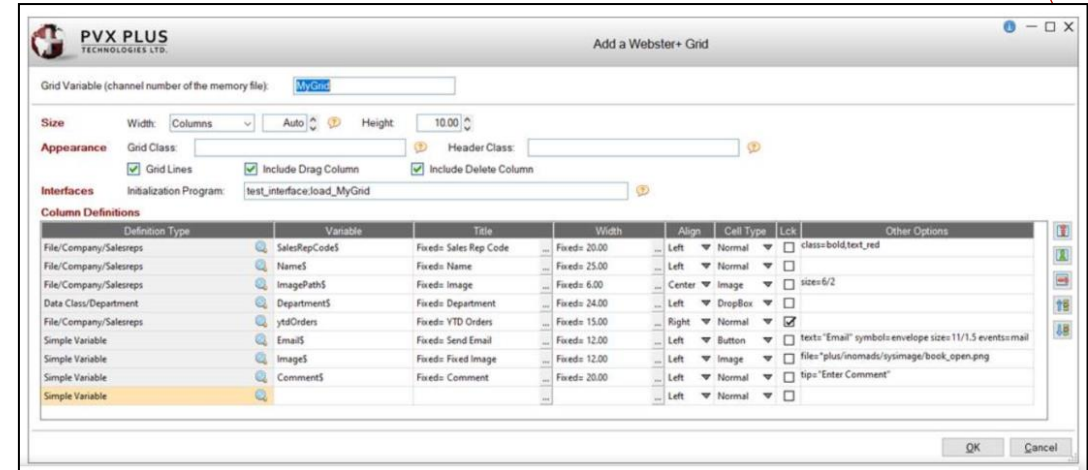
- Defines multiple buttons in a row
 - Similar to defining Additional buttons



GRID (WEBSTER+ ONLY)

ADD A GRID

- An Interface Program method is required to populate memory file
- [Webster+ Grid Example](#)
- So far, would still need to be added in the NOMADS designer for NOMADS



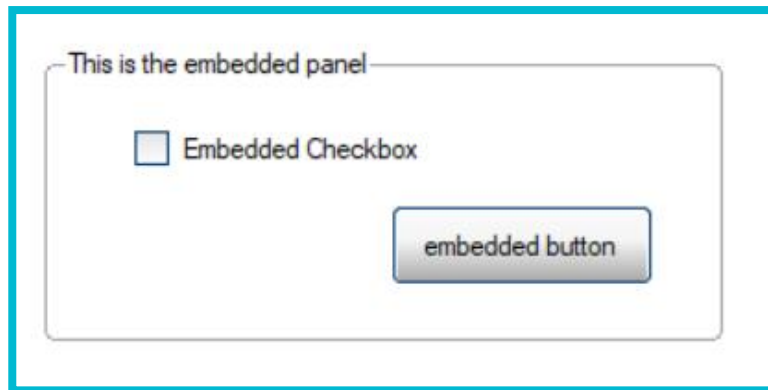
Drag	Sales Rep Code	Name	Ima...	Department	YTD Orders	Send Email	Fixed Image	Comment	Del
☰	AN	Ann Nelson		Eastern Canada Sales	4				
☰	BM	Ben Mackay		Ontario Sales	2				
☰	BT	Betty Turner		Eastern Canada Sales	8				

See 'PxPlus on the Web File Maintenance Generator Demo' PDF for more details

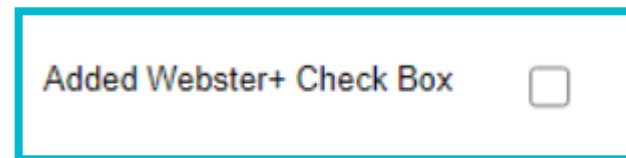
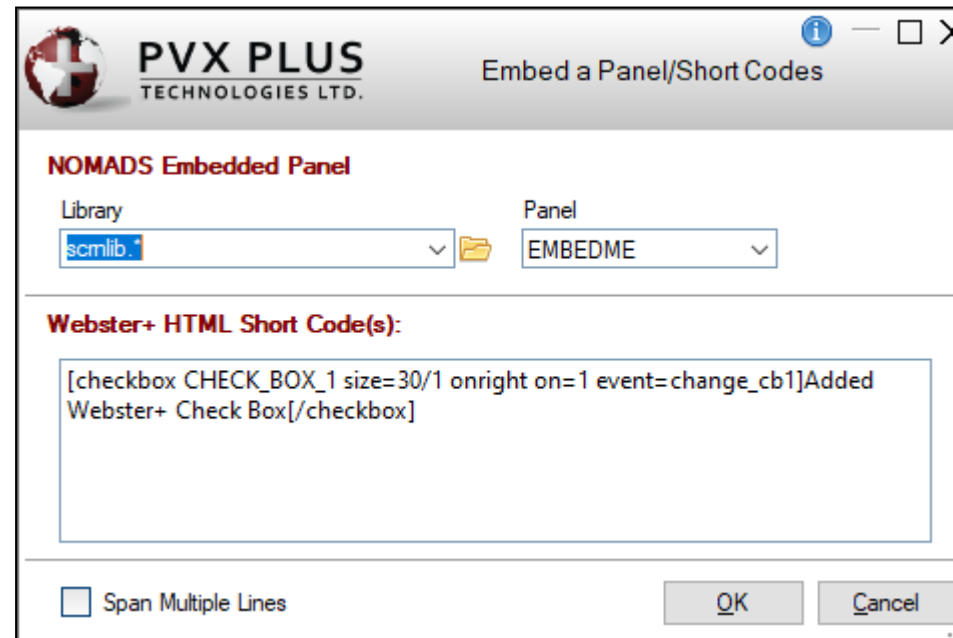
EMBED A PANEL / SHORT CODES

EMBED A PANEL/SHORT CODES

- NOMADS Embedded Panel



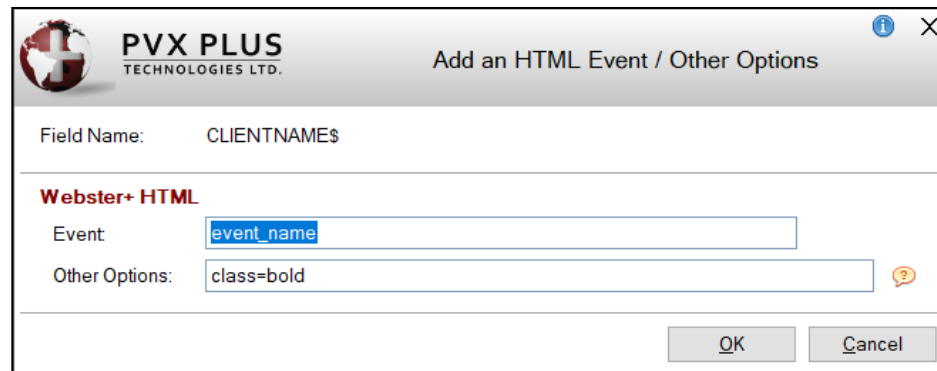
- Webster+ HTML Short Codes



EVENTS (WEBSTER+ ONLY)

HTML EVENTS

- [HTML Events](#) can be added to a Field or an Object
 - Event logic should be added to the HTML Interface Program
 - Analogous to **On Change** or **When Button Pressed** logic in NOMADS



PVX PLUS TECHNOLOGIES LTD. Add an HTML Event / Other Options

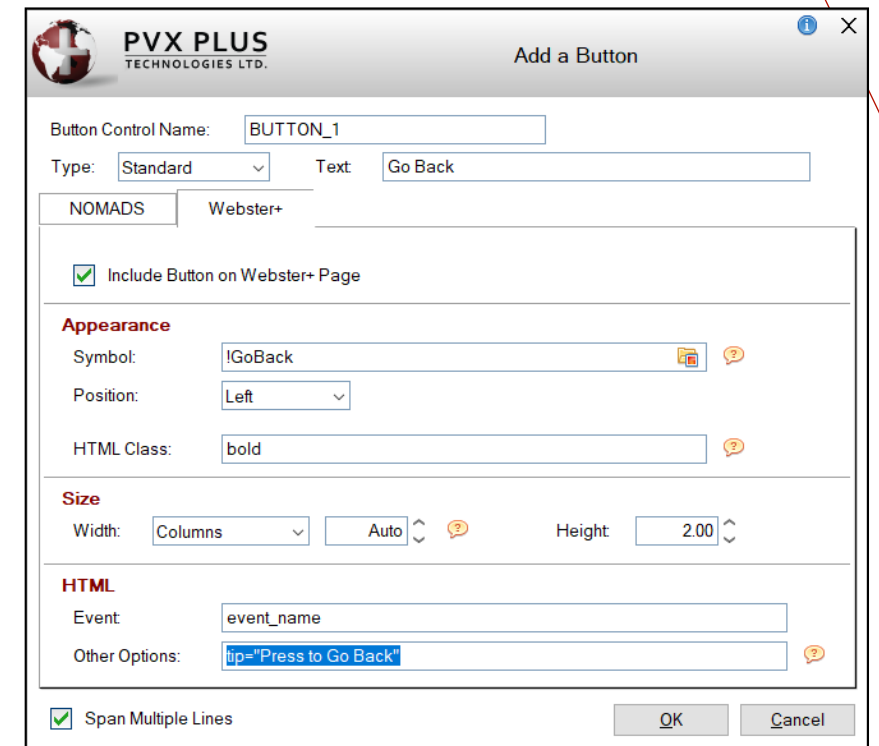
Field Name: CLIENTNAMES

Webster+ HTML

Event: event_name

Other Options: class=bold

OK Cancel



PVX PLUS TECHNOLOGIES LTD. Add a Button

Button Control Name: BUTTON_1

Type: Standard Text: Go Back

NOMADS Webster+

Include Button on Webster+ Page

Appearance

Symbol: !GoBack

Position: Left

HTML Class: bold

Size

Width: Columns Auto Height: 2.00

HTML

Event: event_name

Other Options: tip="Press to Go Back"

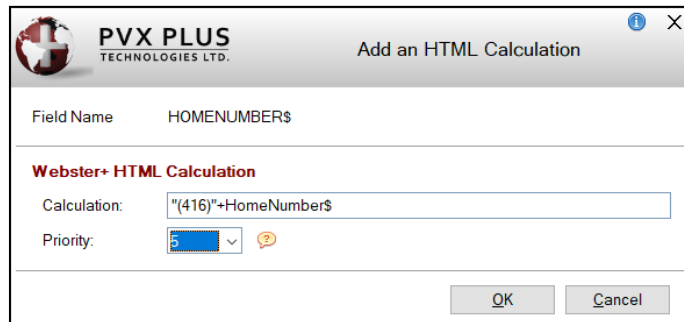
Span Multiple Lines

OK Cancel

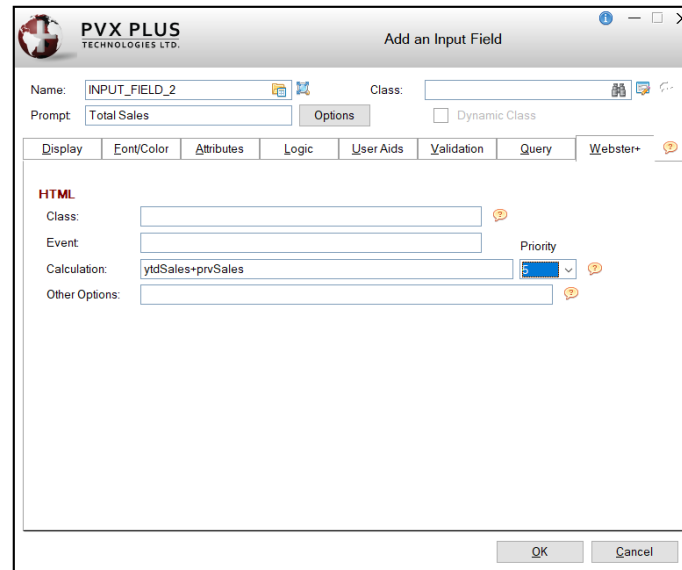
CALCULATIONS (WEBSTER+ ONLY)

HTML CALCULATIONS

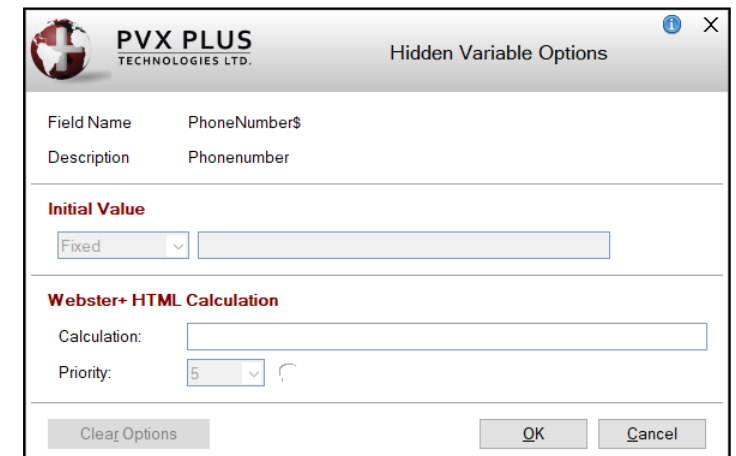
- [HTML Calculations](#) may also be added for a Field, an Object or a Hidden Variable
 - A Priority of 1 - 9 (default of 5) may be assigned in case the calculation order is important
 - Would probably be done via **Post Create, When Receiving Focus** or **On Change** logic in NOMADS



The screenshot shows a dialog box titled "Add an HTML Calculation" from PVX PLUS TECHNOLOGIES LTD. The "Field Name" is set to "HOMENUMBERS". Under the "Webster+ HTML Calculation" section, the "Calculation" field contains the formula `"(416)" + HomeNumber$` and the "Priority" is set to 5. There are "OK" and "Cancel" buttons at the bottom.



The screenshot shows a dialog box titled "Add an Input Field" from PVX PLUS TECHNOLOGIES LTD. The "Name" is "INPUT_FIELD_2" and the "Prompt" is "Total Sales". The "Webster+" tab is active, showing the "HTML" section with a "Calculation" field containing `ytdSales + prvSales` and a "Priority" of 5. There are "OK" and "Cancel" buttons at the bottom.



The screenshot shows a dialog box titled "Hidden Variable Options" from PVX PLUS TECHNOLOGIES LTD. The "Field Name" is "PhoneNumber\$" and the "Description" is "Phonenumber". Under the "Webster+ HTML Calculation" section, the "Calculation" field is empty and the "Priority" is set to 5. There are "Clear Options", "OK", and "Cancel" buttons at the bottom.

LAYOUT GRID INDICATIONS

GRID INDICATIONS

- Cell tick colors are used to indicate cells with Events and/or Calculations
- Double-clicking on cells will allow Events/Calculation settings to be edited



Department (*Department)
Commission YTD (ytdCommission)
Office Phone (*PhoneNumber)

Red indicates an Event

Blue indicates a Calculation

Purple indicates both

HIDDEN VARIABLES (WEBSTER+ ONLY)

Select field layout options

Use SmartPhone Layout

Field Name
ImagePath

Select All

HIDDEN VARIABLES

- Variables that do not appear on the HTML page but are still needed for some other reason such as a calculation
 - Variables that are Fields in the file being maintained
 - Variables added as Input Objects
 - Any other variable

HIDDEN VARIABLE DIALOGS

INCLUDE HIDDEN VARIABLES ON HTML PAGE

- Main dialog to define the Hidden Variables
 - Options dialog for each variable defined

PVX PLUS TECHNOLOGIES LTD. Include Hidden Variables on HTML Page DEMO.html

Fields or Additional Variables that do not appear on the HTML form may still be added as "Hidden Variables" if they are to be used in calculations associated with other data file fields or with Input fields added to the form. Hidden Variables will be removed if the Field is subsequently added to the Panel Layout Grid.

Fields Available

Field Name	Description
Email\$	Email Address
ImagePath\$	Image Pathname
MobileNumber\$	Mobile Phone
PhoneExtension\$	Phone Extension
Printer\$	Printer
prvCommission	Commission Prior
ytdSales	Sales Amt

Assign ▶ Drop ◀

Hidden Variables

Variable Name	Description	Options
CommissionRate	Commission Rate (%)	<input type="checkbox"/>
something_else	(Additional Variable)	<input type="checkbox"/>

Additional Variables

Input field: | Add |

OK Cancel

PVX PLUS TECHNOLOGIES LTD. Hidden Variable Options

Field Name: CommissionRate
Description: Commission Rate (%)

Initial Value

Fixed [input field]

Webster+ HTML Calculation

Calculation: [input field]
Priority: 5 [dropdown]

Clear Options OK Cancel

ENHANCED LAYOUT (VERSION 2024)

NEW LAYOUT OPTION

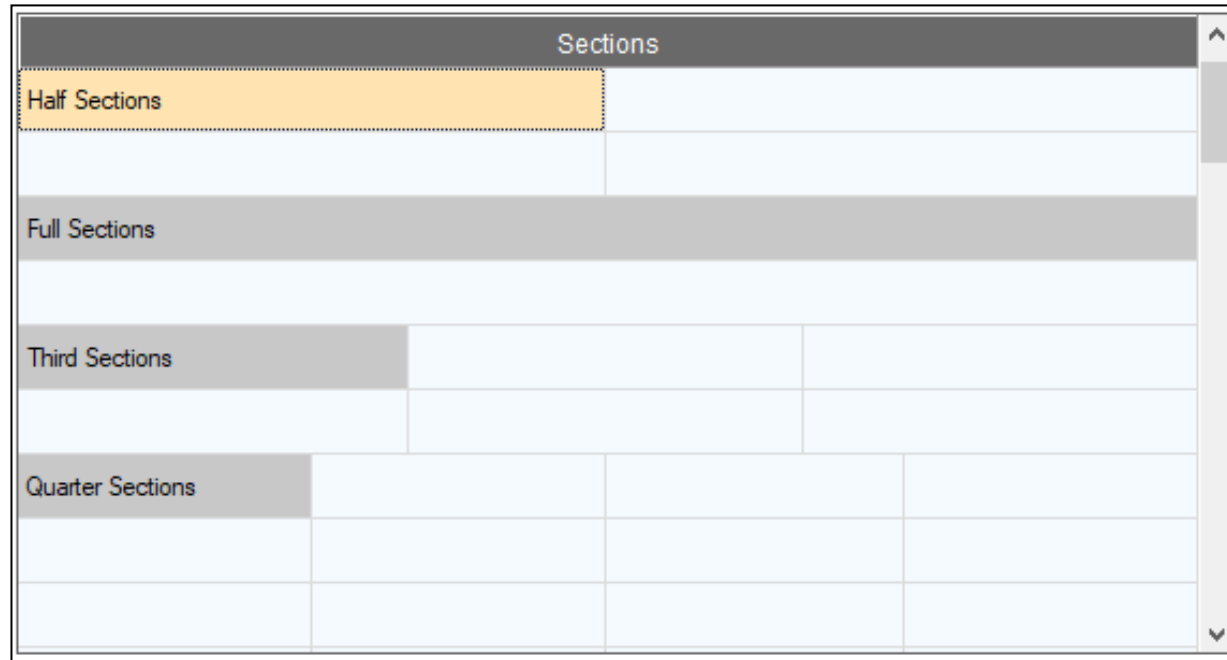
- [Enhanced Layout](#)
 - Default layout for new panels
 - Previous (Two-Column) layout is still available

The screenshot shows the 'File Maintenance Generator for panel: products' window, specifically 'Step 1: File Maintenance Object Definition'. The window has a progress bar at the top with seven steps: 1. Definition (highlighted in red), 2. Properties, 3. Screen, 4. Controls, 5. Keys, 6. Fields, and 7. Finish. Below the progress bar, the 'File Maintenance Template' is set to 'None'. The 'Layout' dropdown menu is highlighted with a red box and shows 'Enhanced' (selected) and 'Two-Column' options. The 'Form Type' section has 'NOMADS Panel' checked. The 'Table Name' and 'Panel Title' fields are empty. The 'File Maintenance Object' is set to 'Use the Standard File Maintenance Object' and the 'Object Name' is '*win/fm_maint.pvc'. The 'Interface Program' field is empty. At the bottom, there are buttons for 'Preview NOMADS Panel', 'Back', 'Next', 'Finish', and 'Cancel'.

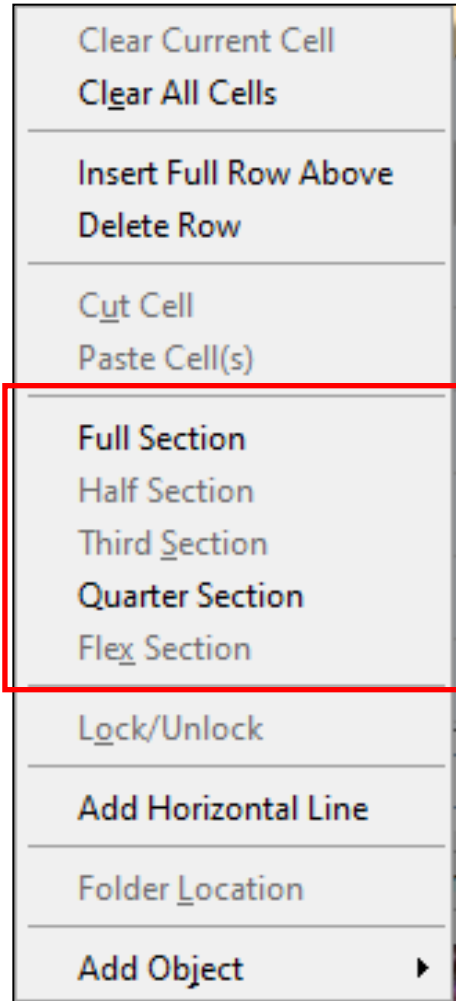
ENHANCED LAYOUT GRID

ENHANCED LAYOUT GRID DISPLAY

- Displays Full, Half, Third and Quarter section sizes in the Enhanced Layout grid
 - Third and Quarter section sizes now also available for NOMADS panels



ENHANCED LAYOUT GRID POPUP MENU



ENHANCED LAYOUT GRID POPUP

- Section sizes are selected via the Popup Menu
 - All unpopulated rows sharing the same section size below the current cell are changed
 - Third Section can only be selected on Full Section cell
 - Flex Section only available when HTML page is being generated
 - Control can be made wider/narrower at runtime

ENHANCED LAYOUT SIZING

PANEL WIDTH CALCULATION

- All alike section sizes are the same width so calculated panel width is largest of:
 - Widest Full Section
 - Widest Half Section x 2
 - Widest Third Section x3
 - Widest Quarter Section x 4

The screenshot shows a software window titled "Product File Maintenance" from "Canadian Automotive Toy Store". The window contains several input fields and buttons. The fields are arranged in a grid-like fashion, with some fields being wider than others. The fields include:

- *Product Code: [input field]
- *Price: [input field with value 0.00]
- YTD Sales: [input field with value 0.00]
- Quantity on Hand: [input field with value 0]
- Product Description: [input field]
- *Standard Cost: [input field with value 0.00]
- Prior Year Sales: [input field with value 0.00]
- YTD Qty Sold: [input field with value 0]
- Prior Year Sold: [input field with value 0]

At the bottom right, there are four buttons: Write, Delete, Clear, and Exit.

- Important to place wide fields and controls in larger Sections to avoid excess white space

ENHANCED LAYOUT ADVANTAGES

CONSIDERATION	LAYOUT CHOICE	EXPLANATION
Panel layout flexibility	Enhanced	The <i>Enhanced</i> layout provides options for defining a row with <i>Full</i> , <i>Half</i> , <i>Third</i> or <i>Quarter</i> sections, which allows for more flexibility for both NOMADS panels and Webster+ HTML pages.
Ease of visualizing Sections	Enhanced	<p>While the <i>Two-Column</i> layout can be used to create <i>Quarter</i> and <i>Third</i> sections for Webster+ HTML pages, these section sizes have no impact on the NOMADS panel being generated.</p> <p>The <i>Enhanced</i> layout makes it easier to use and visualize these sections for both NOMADS panels and Webster+ HTML pages.</p>
> 2 columns needed (in NOMADS)	Enhanced	To generate a NOMADS panel with more than two columns, the <i>Enhanced</i> layout must be used.

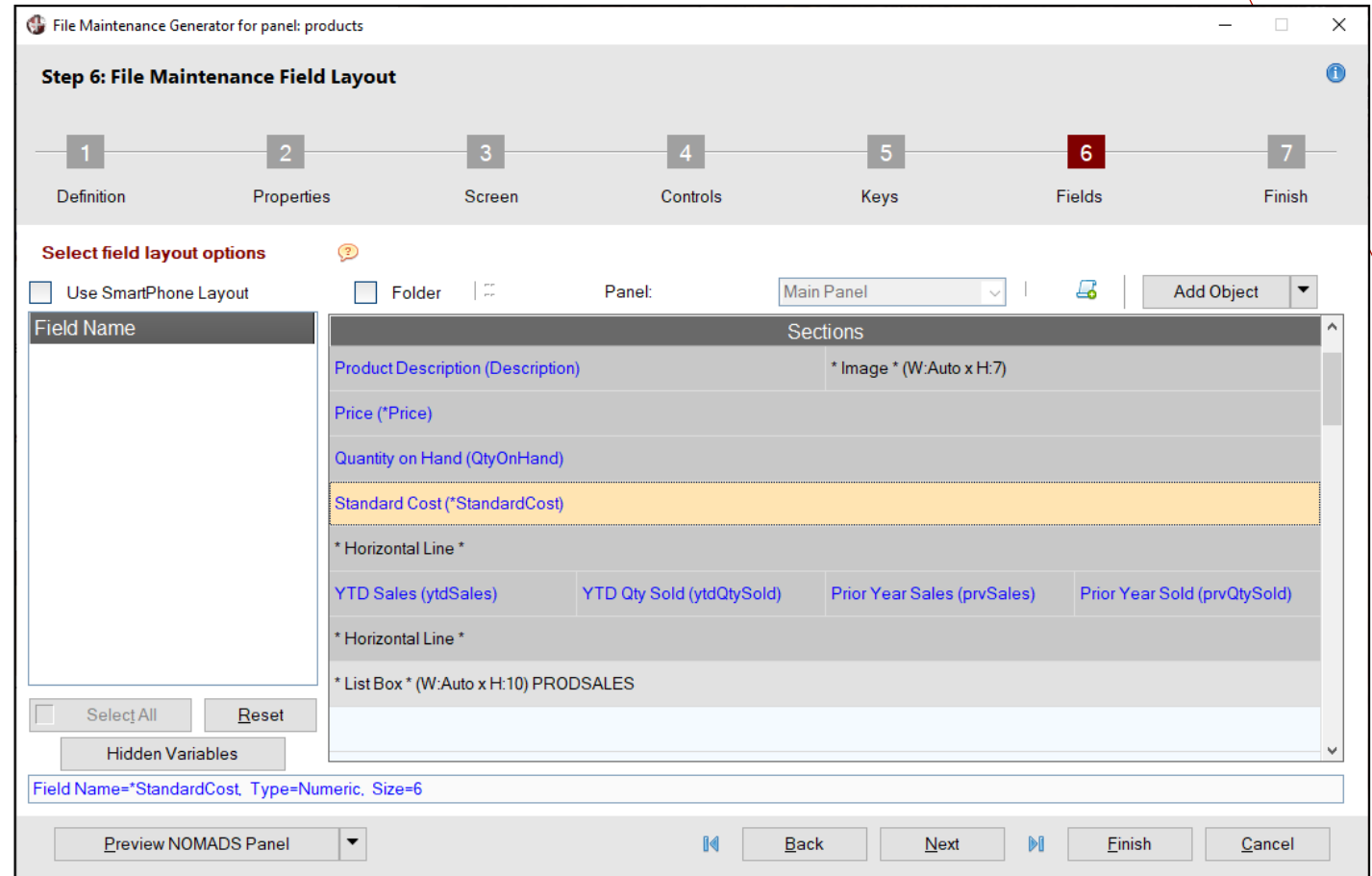
TWO-COLUMN LAYOUT ADVANTAGES

CONSIDERATION	LAYOUT CHOICE	EXPLANATION
Narrow column widths	Two-Column	Because the Left and Right sides of the Two-Column layout can have differing widths, the resulting NOMADS panel may be narrower if narrow elements are all placed on one side of the layout.
Minimum panel width	Two-Column	<p>When using the <i>Enhanced</i> layout, care must be taken to avoid a wide panel with excess white space.</p> <p>In the <i>Layout Grid</i>, placing a wide element in a cell defined as a <i>Quarter</i> section will result in a NOMADS panel that is four times wider than the wide element (including the prompt for data file fields). Very wide elements should be placed in cells defined with larger section sizes, such as <i>Full</i> or <i>Half</i> sections.</p>

COMPLETED LAYOUT GRID

LAYOUT GRID EXAMPLE

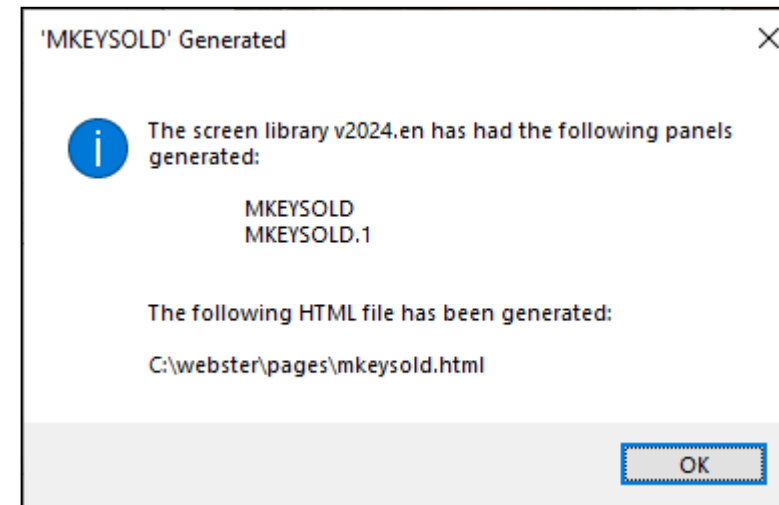
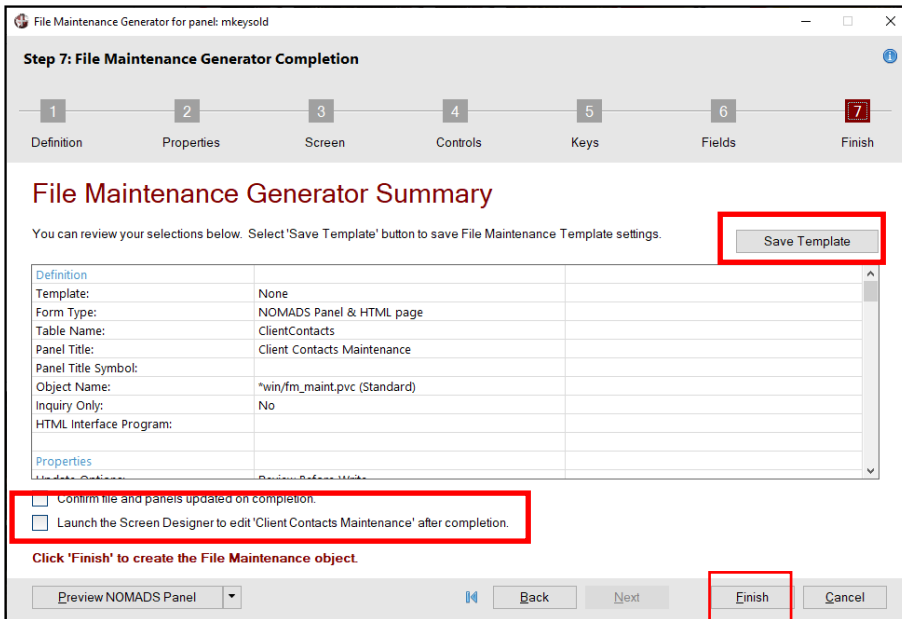
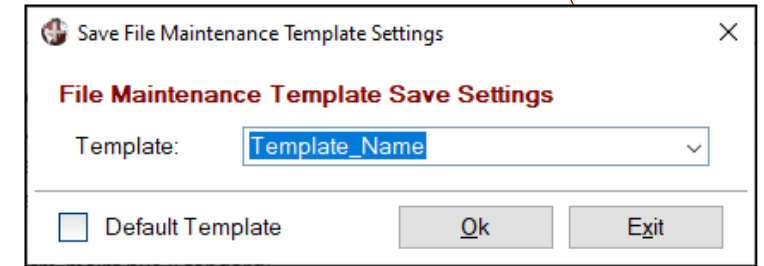
- [How to Use the Enhanced Layout](#)
- [Enhanced Layout Sample Panels](#)



STEP 7: COMPLETION

COMPLETION

- Updates to summary Grid for new inputs and Enhanced Layout
- Save Template button
- Added **Confirm files and panels updated on completion** check box
- Press **Finish** button to generate panel(s) and/or HTML page





OUTPUT

PROCESSING A NOMADS PANEL

PROCESS A NOMADS PANEL

- For File Maintenance panels, arg_1\$ is used for passing the key to a record to initially display

```
PROCESS "panel","[lib]",arg_1$,arg_2$, ... arg_20$
```

Examples

```
PROCESS "products","scrnlib.en"
```

Displays 'products' File Maintenance panel

```
PROCESS "products","scrnlib.en","BUS-3111-CYN"
```

Displays 'products' File Maintenance panel with the BUS-3111-CYN record displayed

COMPLETED NOMADS PANEL

Canadian Automotive Toy Store Product File Maintenance


Product Code: ⏪ ⏩

Product Description:

Price:

Quantity on Hand:

Standard Cost:

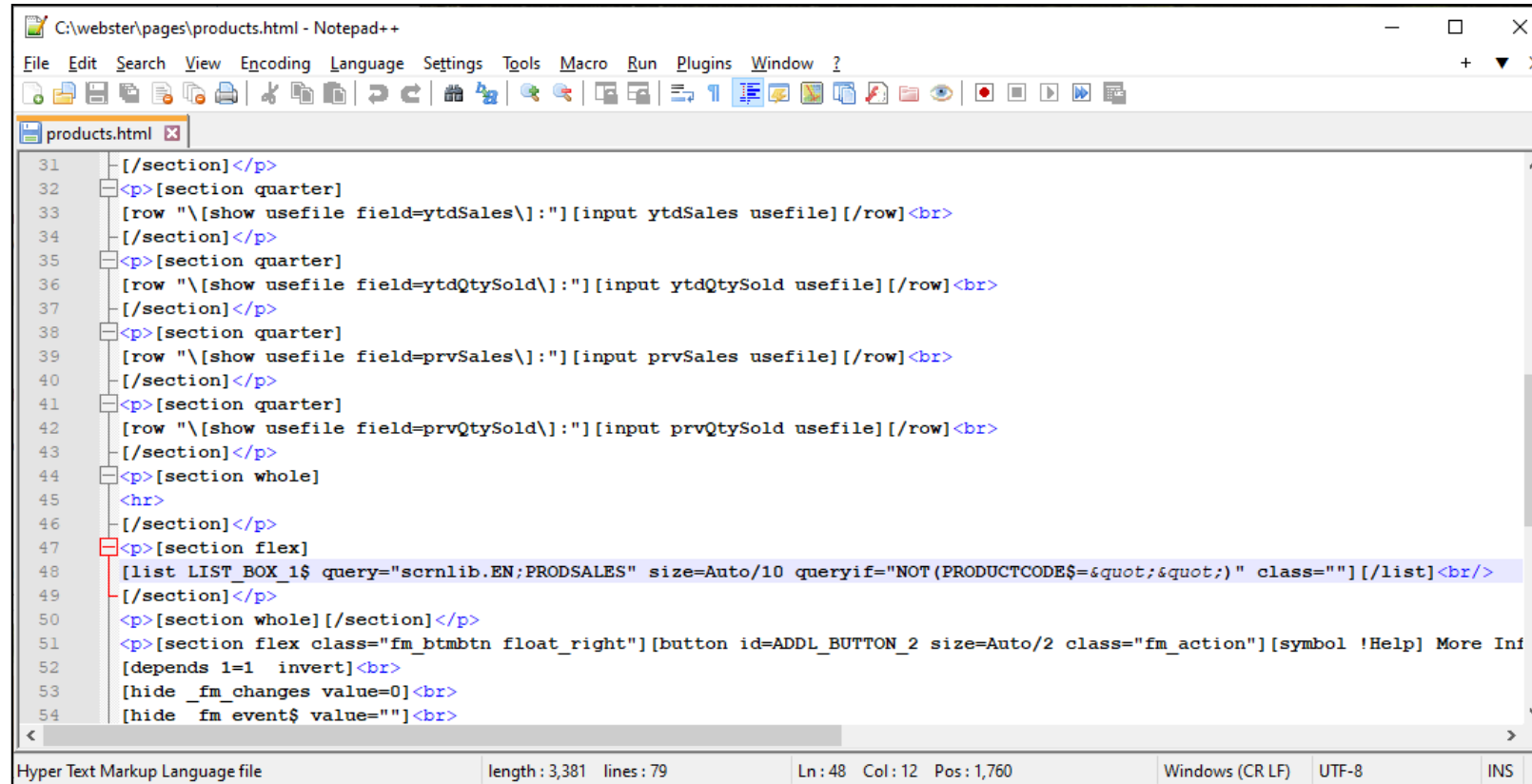


YTD Sales: YTD Qty Sold: Prior Year Sales: Prior Year Sold:

Invoice	Qty.	Client	Name	Price	Total
100006	5	429878	Nacogdoches Hardware Store	8.50	\$42.50
100012	10	895258	Panola Steak House	8.50	\$85.00
100014	10	228045	Leon Bistro and Bar	8.50	\$85.00
100023	15	626449	Coryell Wedding Chapel	8.50	\$127.50
100090	25	517990	Gregg Office Supplies	8.50	\$212.50
100093	10	228045	Leon Bistro and Bar	8.50	\$85.00
100133	10	039816	Williamson Roofing	8.50	\$85.00
100173	5	196884	Hardin Fencing	8.50	\$42.50
100179	1	566143	Guadalupe Winery	8.50	\$8.50

- Has Image, 4 columns and a List Box

GENERATED HTML PAGE



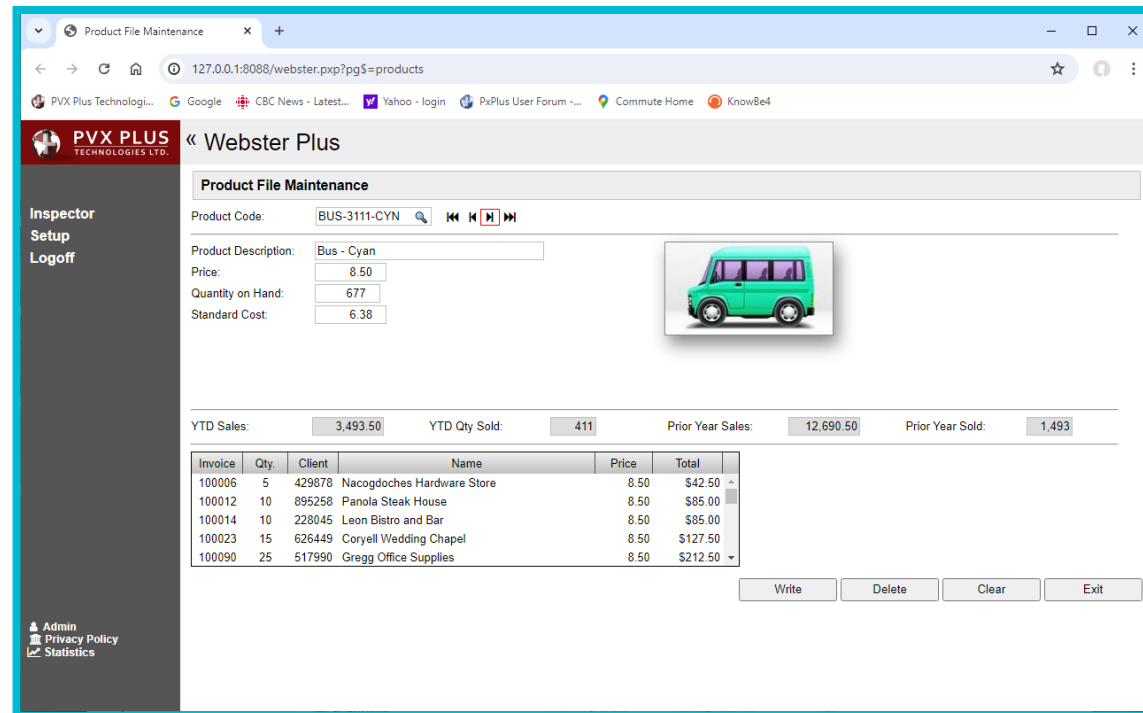
```
C:\webster\pages\products.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
products.html x
31  [/section]</p>
32  <p>[section quarter]
33  [row "\[show usefile field=ytdSales\]:"[input ytdSales usefile][row]<br>
34  [/section]</p>
35  <p>[section quarter]
36  [row "\[show usefile field=ytdQtySold\]:"[input ytdQtySold usefile][row]<br>
37  [/section]</p>
38  <p>[section quarter]
39  [row "\[show usefile field=prvSales\]:"[input prvSales usefile][row]<br>
40  [/section]</p>
41  <p>[section quarter]
42  [row "\[show usefile field=prvQtySold\]:"[input prvQtySold usefile][row]<br>
43  [/section]</p>
44  <p>[section whole]
45  <hr>
46  [/section]</p>
47  <p>[section flex]
48  [list LIST_BOX_1$ query="scrnlib.EN;PRODSALES" size=Auto/10 queryif="NOT(PRODUCTCODE$=&quot;&quot;)" class=""][/list]<br/>
49  [/section]</p>
50  <p>[/section whole][section whole][section flex][section whole][section flex]
51  <p>[section flex class="fm_btmbtn float_right"][button id=ADDL_BUTTON_2 size=Auto/2 class="fm_action"][symbol !Help] More Inf
52  [depends 1=1 invert]<br>
53  [hide_fm_changes value=0]<br>
54  [hide_fm_event$ value=""]<br>
Hyper Text Markup Language file      length: 3,381  lines: 79      Ln: 48  Col: 12  Pos: 1,760      Windows (CR LF)  UTF-8  INS
```

- Educational tool for learning Webster+ short codes and options

WEBSTER+ PAGE

DISPLAY A WEBSTER+ PAGE

- A Webserver of some sort must be running
 - EZWeb
 - Apache
 - IIS



The screenshot shows a web browser window with the address bar displaying `127.0.0.1:8088/webster.pxp?pg$=products`. The page title is "Webster Plus" and the main content area is titled "Product File Maintenance".

Product Code: BUS-3111-CYN

Product Description: Bus - Cyan

Price: 8.50

Quantity on Hand: 677

Standard Cost: 6.38

YTD Sales: 3,493.50 YTD Qty Sold: 411 Prior Year Sales: 12,690.50 Prior Year Sold: 1,493

Invoice	Qty.	Client	Name	Price	Total
100006	5	429878	Nacogdoches Hardware Store	8.50	\$42.50
100012	10	895258	Panola Steak House	8.50	\$85.00
100014	10	228045	Leon Bistro and Bar	8.50	\$85.00
100023	15	626449	Coryell Wedding Chapel	8.50	\$127.50
100090	25	517990	Gregg Office Supplies	8.50	\$212.50

Buttons: Write, Delete, Clear, Exit

- Navigate to URL
 - `http://server_address:port/?pg$=html_page`

IN CONCLUSION

THE FILE MAINTENANCE GENERATOR HAS COME A LONG WAY SINCE PXPLUS 2019

- Regenerate Panels
- Non-File Maintenance Panels
- Added Flexibility with many new Settings/Options
- Additional Browse/Action Buttons
- Hyperlinks
- Dependencies
- Create Webster+ Pages
 - Events
 - Calculations
 - Grids
 - Hidden Variables
- Enhanced Layout