

A low-angle, upward-looking shot of the Golden Gate Bridge's iconic red-orange steel tower. The perspective emphasizes the height and structural complexity of the bridge, with thick cables fanning out from the tower. The sky is a clear, vibrant blue. A semi-transparent red banner is overlaid on the right side of the image, containing the title text.

USING THEMES AND VISUAL CLASSES

DireXions 2024

THEMES AND VISUAL CLASSES

- Used to define display settings and other attributes to a group or individual controls
- Themes
 - Application (system) wide
 - Applies to all controls of the same type
 - For example, you can create a theme for a button that is flat, with a blue background, red text and a green border. This would then be applied to all buttons in your application
- Visual Classes
 - Are set on individual control types
 - Overrides the theme setting
 - For example, can be assigned to individual tool bar buttons or bitmap buttons, or other text buttons for a different look from the theme that was set
- NOMADS and iNomads are supported
- Multiple themes visual classes can co-exist
- Used to update the look and feel of your application

THEMES AND VISUAL CLASSES

- Where are they?
 - Themes – providex.dfs
 - Visual Classes – providex.ccl

PxPlus System Themes and Visual Classes

- Found in *plus/winutl
- Start with * in panel designers

Theme

☐ Expression

|

MyTheme
*Dark
*Light
*None

Visual Class

☐ Expression

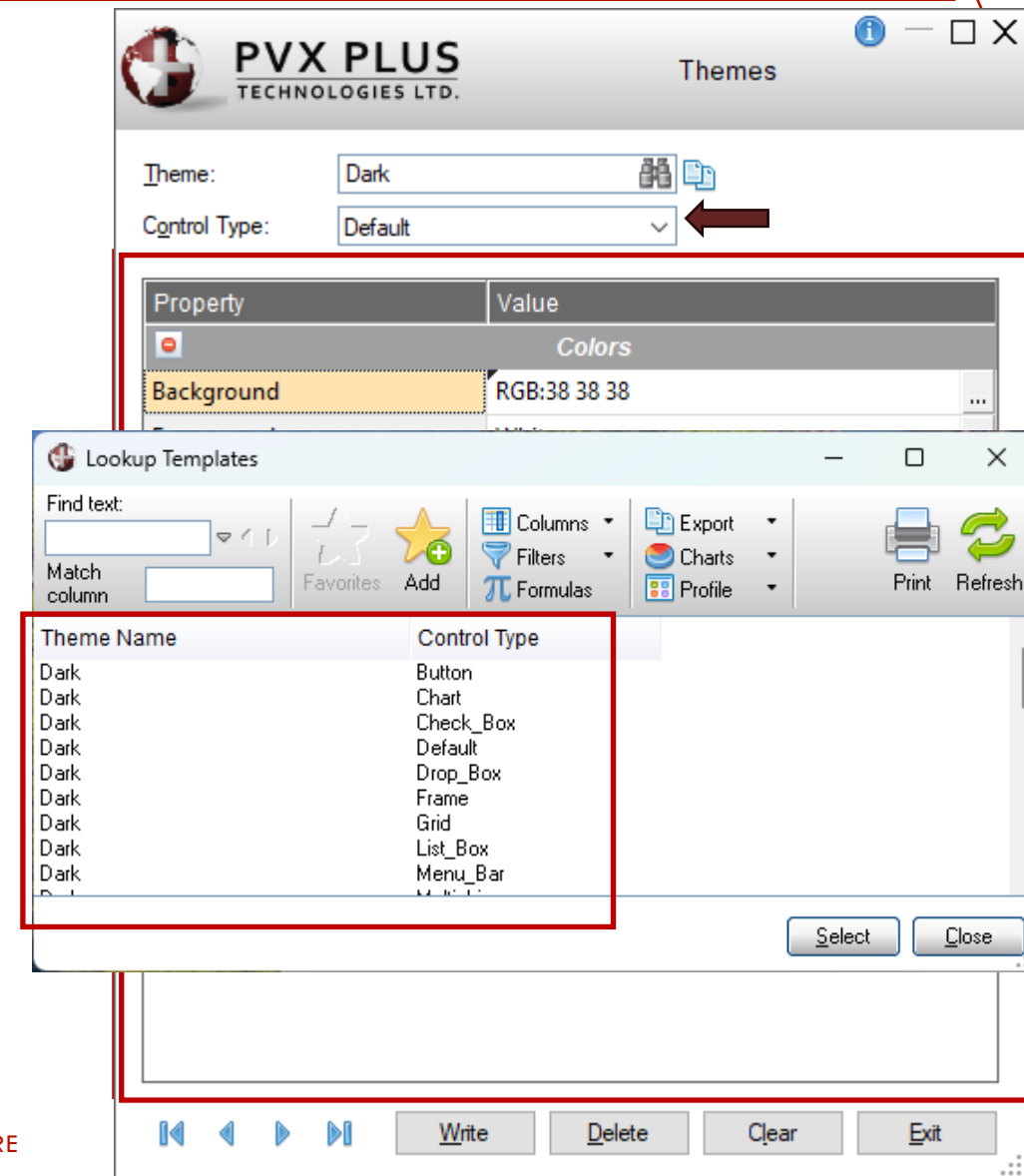
|

MyButton
*BUTTONBITMAP
*BUTTONCLOSE
*BUTTONIDERB
*BUTTONRADIO
*BUTTONSIDE

THEMES AND VISUAL CLASSES

Themes Maintenance

- Each control type has its own set of unique properties
 - Colors (States)
 - Font
 - Other attributes
- Themes have a 'default' type where background and foreground color, and font can be set
- Copy dialog can be used to copy individual themes
- A theme can be a single control type or a collection of control types



THEMES AND VISUAL CLASSES

Themes

- Applying a Theme

Hierarchy	Level	
1	%NOMADS'Theme\$	Usually in start_up
2	Library Defaults (overrides Nomads'theme setting)	Font/Color Tab
3	Panel Header (overrides Library Defaults)	Font/Color Tab
4	%NOMADS'ThemeOverride\$ (overrides all theme settings)	Usually in start_up

The screenshot shows the 'Panel Definition' dialog box for 'Client_Mnt'. The 'Font/Color' tab is active, displaying various settings for the panel's appearance. A red box highlights the 'Theme' dropdown menu, which is currently set to 'Cats2'. The dialog also shows font specifications, color settings, and a list of mnemonics.

PVX PLUS TECHNOLOGIES LTD. Panel Definition

Panel: Client_Mnt Last update: 2024/07/03 12:17 Len

Font Specification

Font: <Default Graphic Font> Size: Regular

%NOMADS'Theme\$="Blue Wave"

Align: Left Justify Word Wrap

Color

Foreground: Default Background: Default

Attributes

☐ Bold ☐ Inverse Video ('BR')
☐ Italics ☐ Underscore ('BU')
☐ Underline All Chars. ☐ Background ('SB')

Mnemonics

Theme

☐ Expression
Cats2

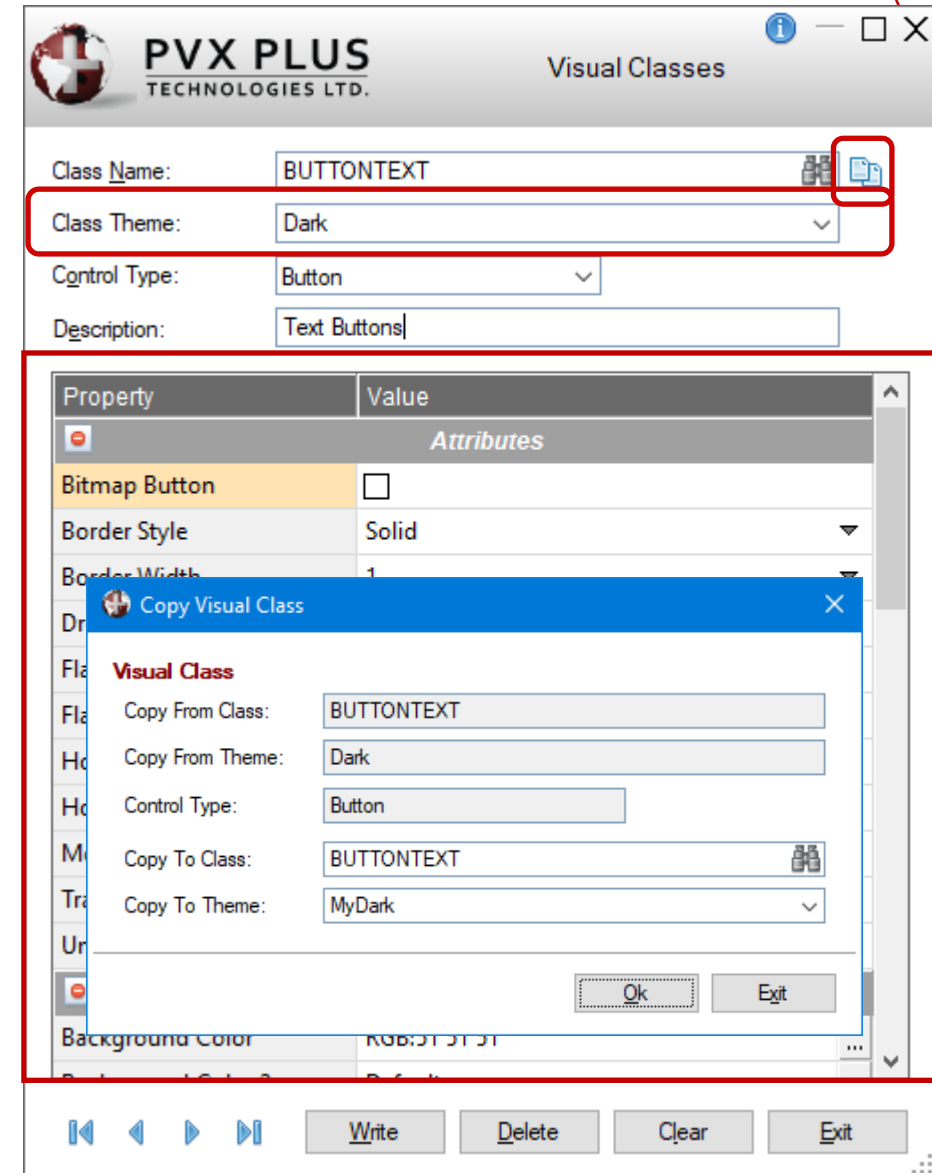
%NOMADS'ThemeOverride\$="Autumn"

Security Popup Menu Notes OK Cancel

THEMES AND VISUAL CLASSES

Visual Classes Maintenance

- Each control type has its own set of unique properties
 - Colors (States)
 - Font
 - Other attributes
- Copy dialog can be used to copy individual visual classes and related theme
- A theme can be assigned to a visual class
- Why is this important?
 - May want multiple themes for a different look for different users, application modules, etc.
 - For example: Dark theme, Blue Wave theme



THEMES AND VISUAL CLASSES

Visual Classes Maintenance

- Visual classes are applied to individual controls on a panel
- Visual class will override any theme defined

The screenshot shows the 'Button Properties' dialog box for a 'Cancel' button. The 'Visual Class' section is highlighted with a red box. The 'Name' field is 'Cancel' and the 'Class' field is empty. The 'Font Specification' section shows 'Font' as '<Default Graphic Font>' and 'Size' as 'Regular'. The 'Color' section shows 'Foreground' and 'Background' both set to 'Default'. The 'Attributes' section has checkboxes for 'Bold', 'Italics', 'Underscore All Characters', and 'ANSI Characters' (checked). The 'Alignment' section has radio buttons for 'Left Justify', 'Center' (selected), and 'Right Justify'. The 'Visual Class' section has a checkbox for 'Expression' and a dropdown menu set to 'TextButton'. The 'iNomads Class' section has a checkbox for 'Expression' and an empty text field. The bottom of the dialog has buttons for 'Security', 'Groups', 'Popup Menu', 'Notes', 'OK', and 'Cancel'.

THEMES AND VISUAL CLASSES

Updating Themes and Visual Classes in Libraries and Panels

Utilities	Where	Description	
Panel Bulk Edit	Panel Designer	Apply to more than one selected control in the current panel	Visual Class
Visual Class Assignment by Panel	Panel Designer	Apply to controls in the current panel	Visual Class
Visual Class Assignment by Library	Library Object Selection	Apply to controls for the selected panel	Visual Class
Library Bulk Edit and Search	IDE or Nomads Session Manager or Library Object Selection	Apply to controls in multiple panels either in a single library or in multiple libraries within a specified directory	Theme, Visual Class

A low-angle, upward-looking photograph of a massive, rusted steel structure, likely a bridge or tower, against a bright sky. The structure is composed of large, riveted steel plates. A prominent red banner with white text is overlaid horizontally across the center of the image. Thin red lines extend from the corners of the banner towards the edges of the frame.

COPY THEME

COPY THEME

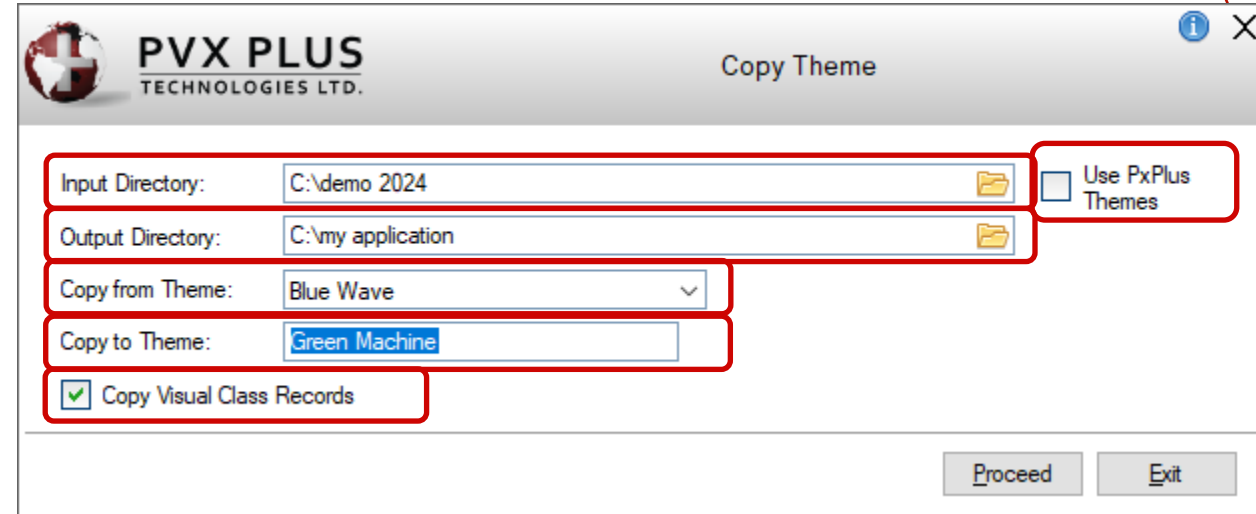
Copy Theme

- Introduced in PxPlus 2024
- Quick way to copy themes and associated visual classes
- Copies themes/visual classes between directories or same directory
- System Themes and Visual Classes can be copied such as dark theme
- Themes can be renamed as part of the copy process

COPY THEME

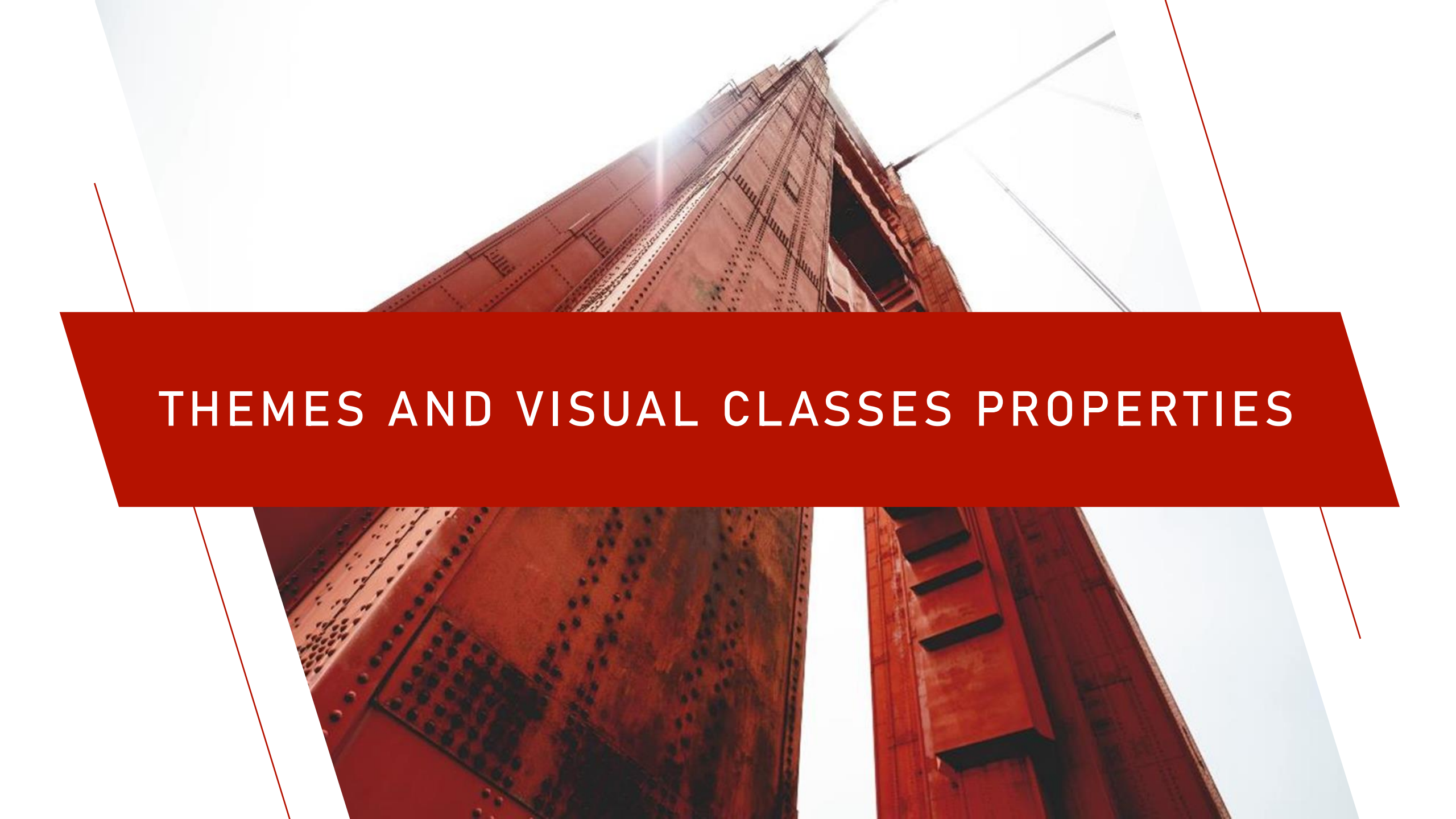
Copy Theme

- Input Directory - defaults to your working directory or another directory entered
- Use PxPlus Themes - select to copy system PxPlus themes and visual classes (i.e. dark theme)
- Output Directory – destination directory where themes and visual classes will be copied to
- Copy from Theme - displays all available themes based on Input Directory
- Copy to Theme – New or existing theme to copy to
- Copy Visual Class Records - associated visual class for the theme can be optionally copied
- Theme and Visual Class files are created if they do not exist in the Output Directory



The screenshot shows the 'Copy Theme' dialog box from PVX PLUS TECHNOLOGIES LTD. The dialog has a title bar with the company logo and name. The main area contains several fields and checkboxes, all highlighted with red rectangles. The fields are: 'Input Directory' (C:\demo 2024), 'Output Directory' (C:\my application), 'Copy from Theme' (Blue Wave), and 'Copy to Theme' (Green Machine). There is a checkbox for 'Use PxPlus Themes' which is unchecked. At the bottom, there is a checkbox for 'Copy Visual Class Records' which is checked. The dialog has 'Proceed' and 'Exit' buttons at the bottom right.

Field	Value
Input Directory:	C:\demo 2024
Output Directory:	C:\my application
Copy from Theme:	Blue Wave
Copy to Theme:	Green Machine
Use PxPlus Themes	☐
Copy Visual Class Records	☒

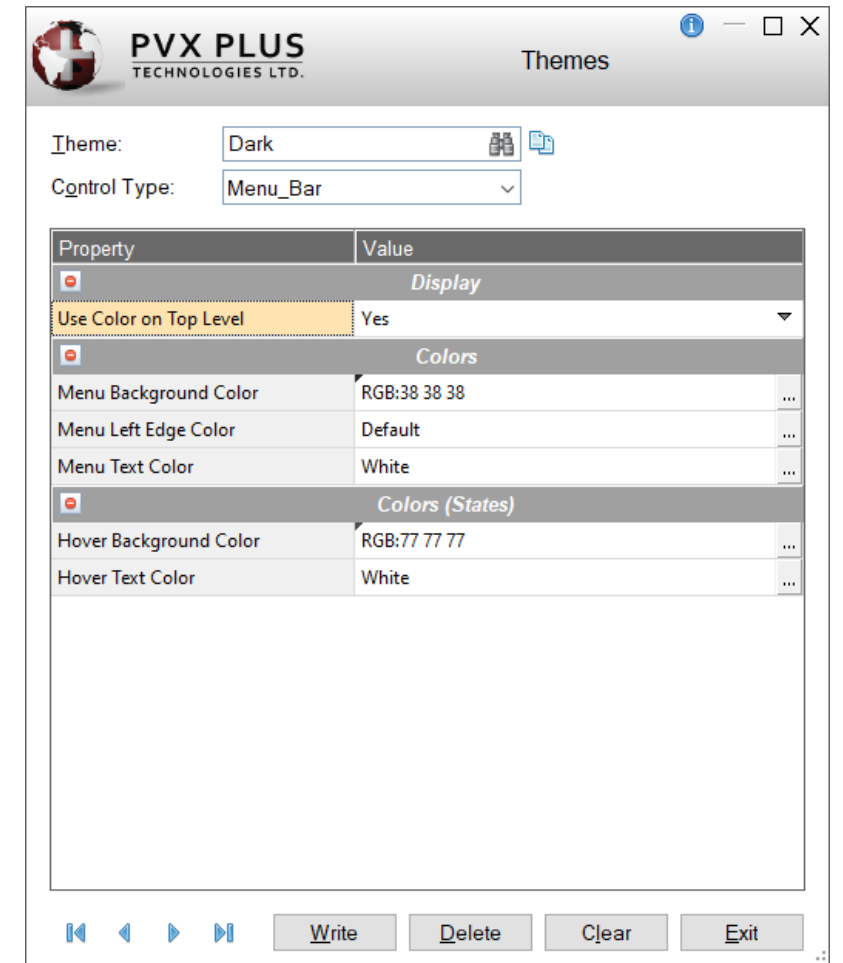


THEMES AND VISUAL CLASSES PROPERTIES

THEMES AND VISUAL CLASSES

Menu Bar and Popup Menu Properties - *New*

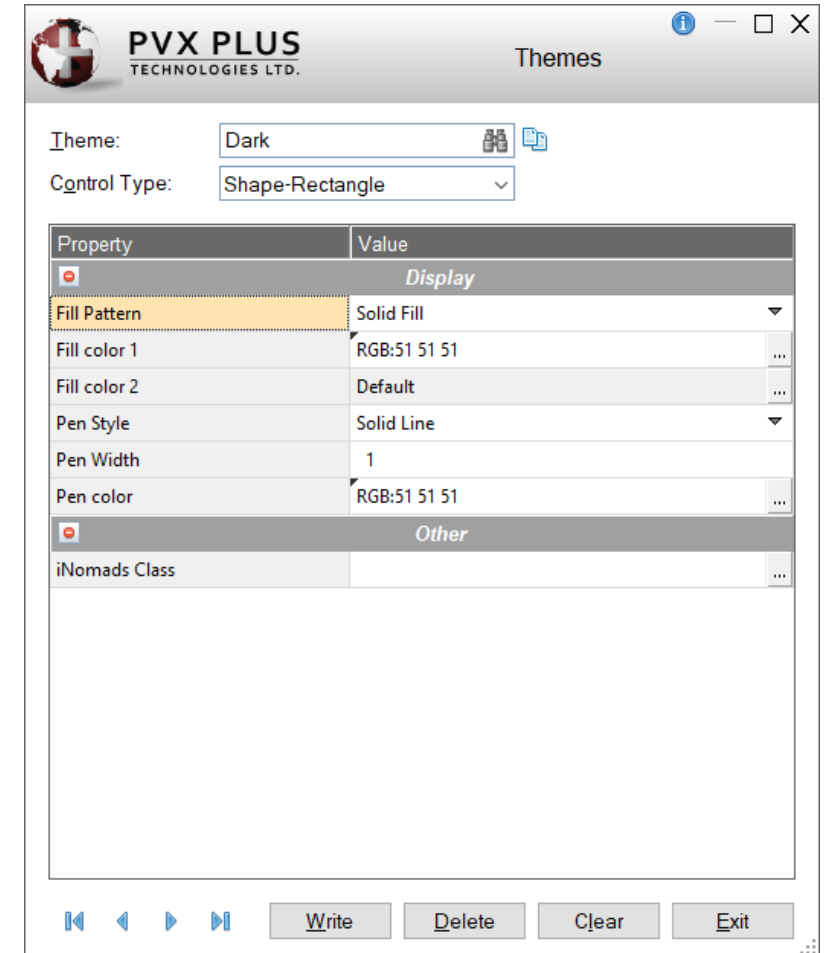
Property	Description
Use Color on Top Level	Apply the Text and Background menu colors to top level (Menu Bar only)
Menu Background Color	Applies a background color to the menu
Menu Left Edge Color	Applies a background color for the left edge portion of the menu. If not set, the menu background color is used
Menu Text Color	Applies a text color to the menu items
Hover Background Color	Color used for the background when hovering over an item
Hover Text Color	Color of the menu item text when the mouse hovers over it



THEMES AND VISUAL CLASSES

[Shape-Circle](#), [Shape-Line](#) and [Shape-Rectangle](#) Properties - *New*

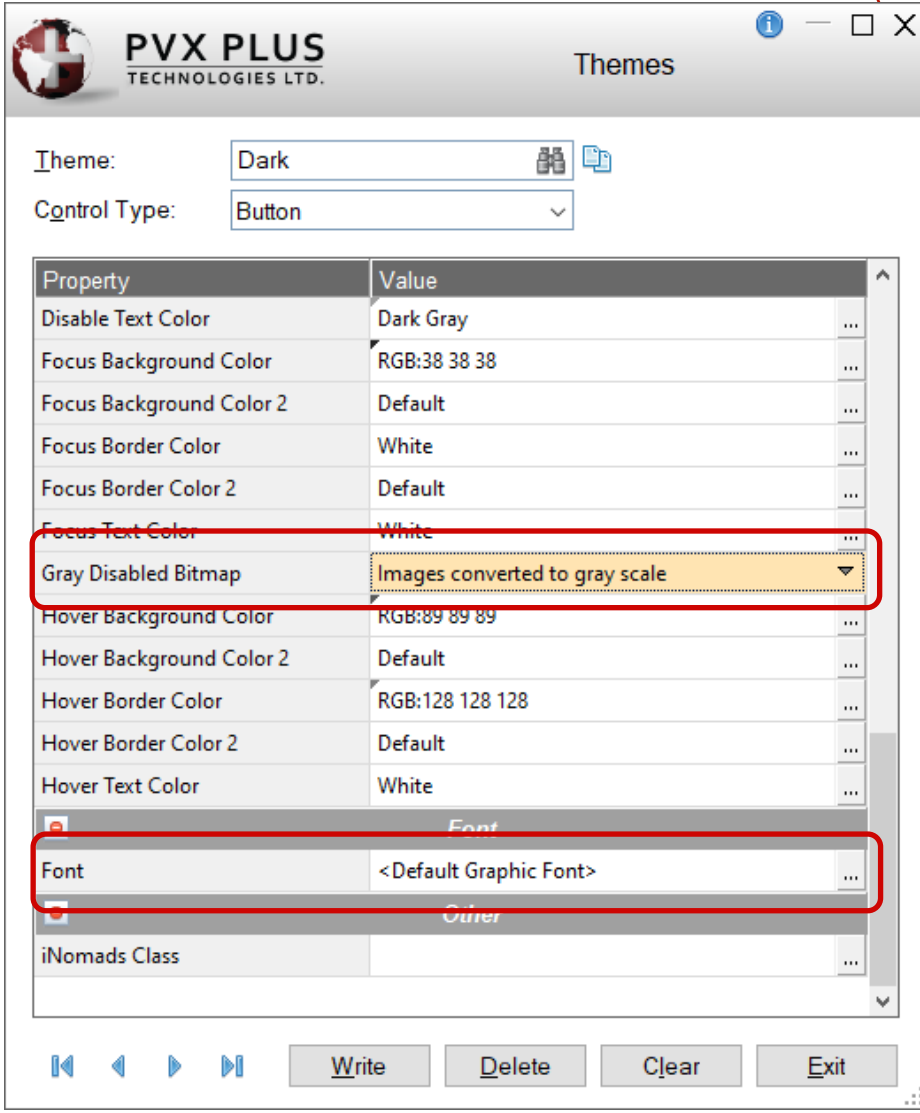
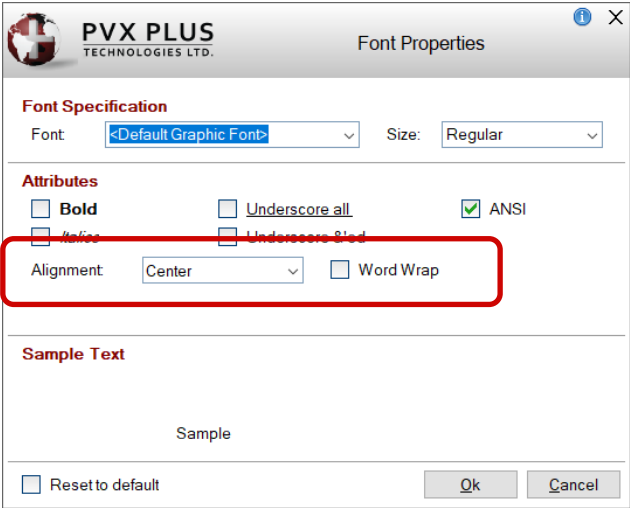
Property	Description
Fill Pattern	Select the direction of the gradient fill or pattern from pre-defined options
Fill Color 1	Color for shape
Fill Color 2	Second color for two-color gradient of fill patterns
Pen Style	Select pen style from pre-defined options
Pen Width	Pen width in graphical units. Valid entries are 0 - 255
Pen Color	Set the pen color using Color Selections dialog



THEMES AND VISUAL CLASSES

Button Properties

Property	Description
<u>Gray Disabled Bitmap</u>	Image display for disabled buttons Available selections: - Default gray disabled setting (Default) - Images display as shadows - Images converted to gray scale
Font - Alignment and Word Wrap	Sets Alignment and Word Wrap



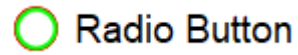
THEMES AND VISUAL CLASSES

Radio Button Properties

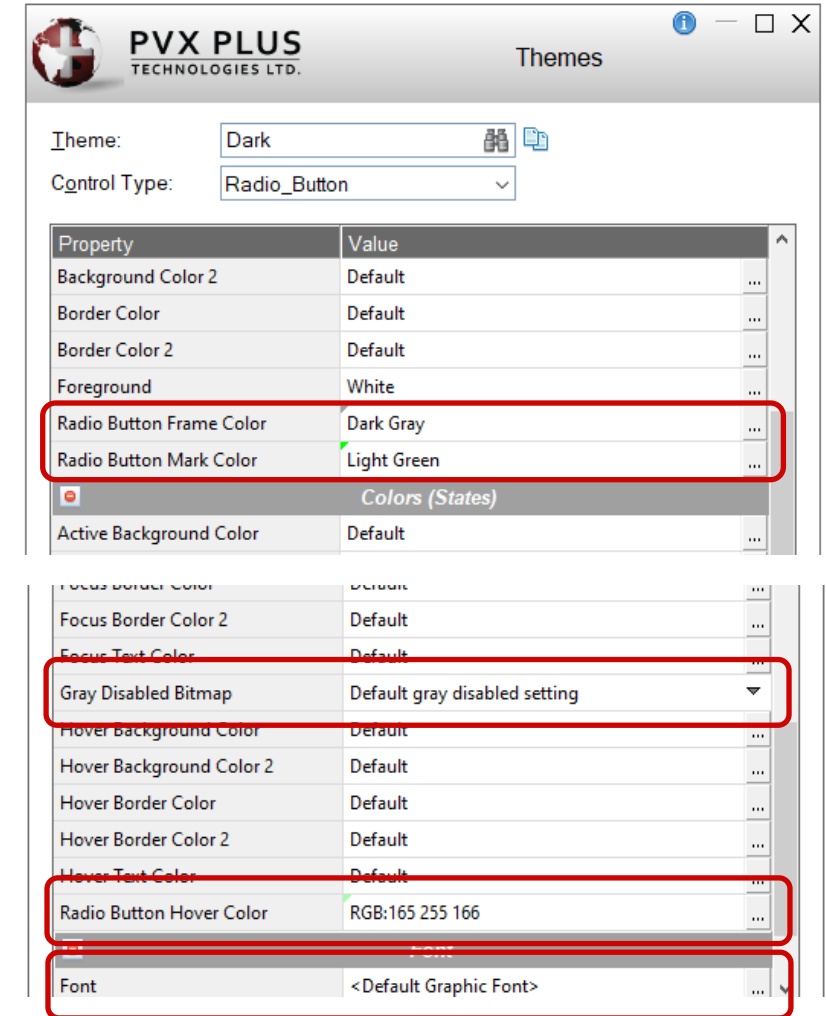
Property	Description
Radio Button Frame Color	Color of the frame/outline circle (no bitmap)
Radio Button Mark Color	Color of the circle in the radio button when clicked (no bitmap)
Gray Disabled Bitmap	Image display for disabled buttons Available selections: - Default gray disabled setting (Default) - Images display as shadows - Images converted to gray scale
Radio Button Hover Color	Hover color on mouse over (no bitmap)
Font - Alignment and Word Wrap	Sets Alignment and Word Wrap



Radio Button



Radio Button



THEMES AND VISUAL CLASSES

Check Box and Tristate Checkbox Properties

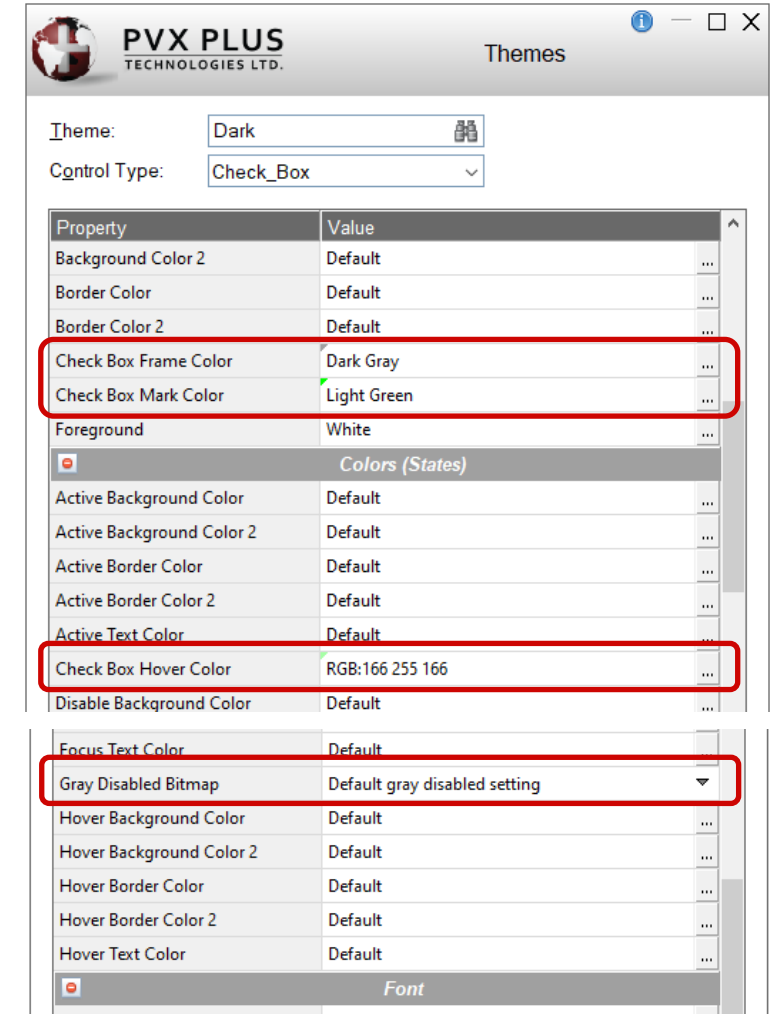
Property	Description
<u>Check Box Frame Color</u>	Color of the frame/outline check box (no bitmap)
<u>Check Box Mark Color</u>	Color of the check mark when checked (no bitmap)
<u>Check Box Hover Color</u>	Hover color on mouse over (no bitmap)
<u>Gray Disabled Bitmap</u>	Image display for disabled buttons Available selections: - Default gray disabled setting (Default) - Images display as shadows - Images converted to gray scale
Font - Alignment and Word Wrap	Sets Alignment and Word Wrap



Check Box



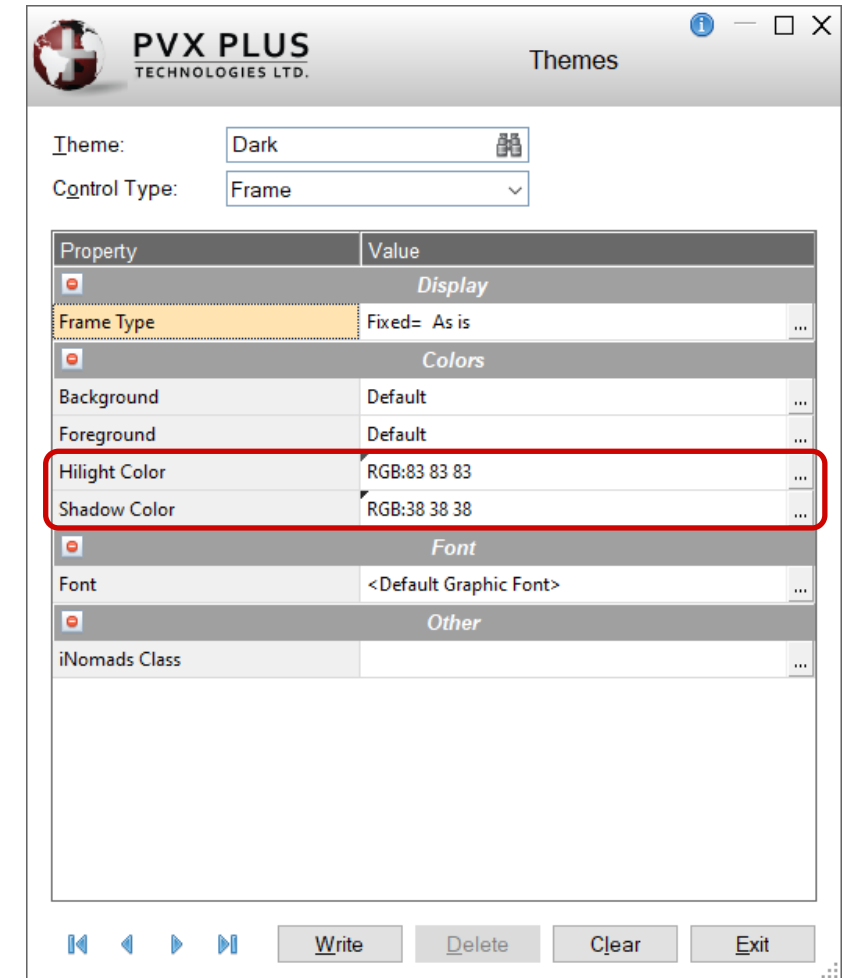
Check Box



THEMES AND VISUAL CLASSES

Frame Properties

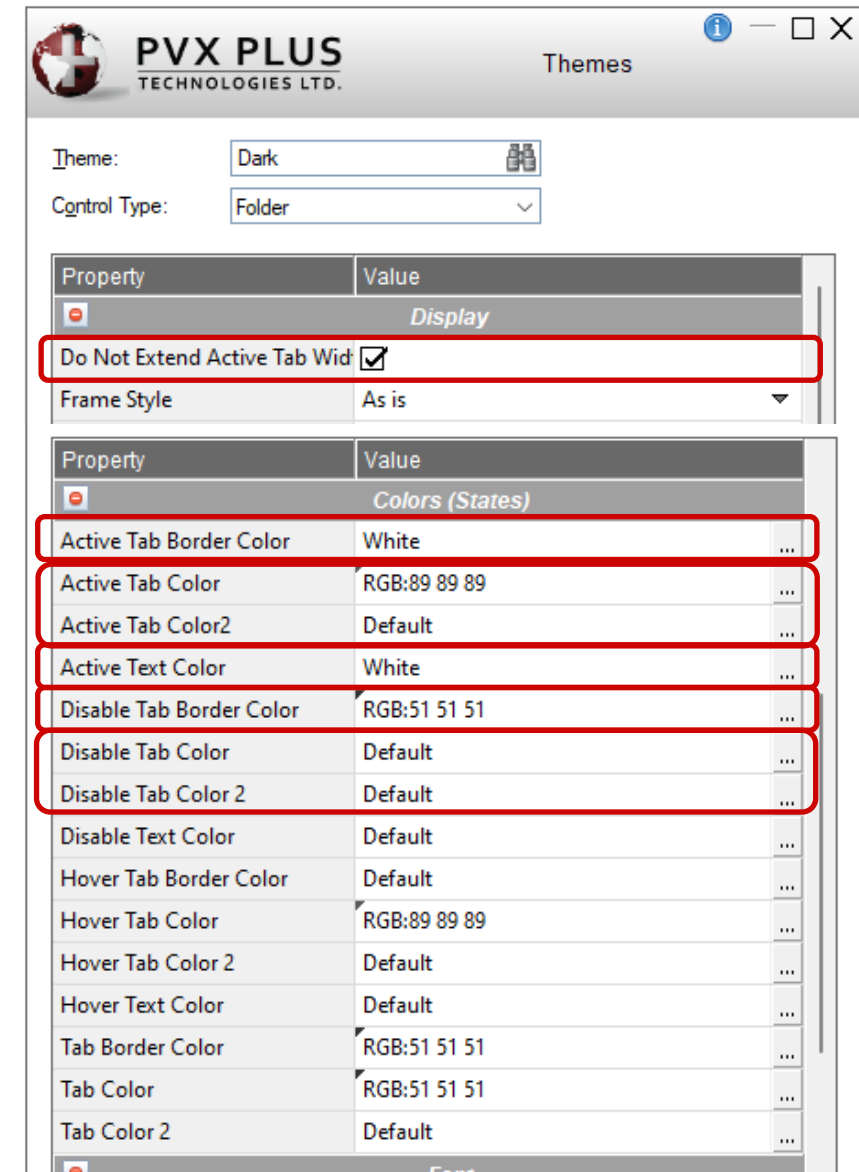
Property	Description
<u>Hilight Color</u>	Color of the highlight line for non-Text Mode frame styles. Default is Light Gray
<u>Shadow Color</u>	Color of the shadow line for non-Text Mode frame styles. Default is Dark Gray



THEMES AND VISUAL CLASSES

Folder Properties

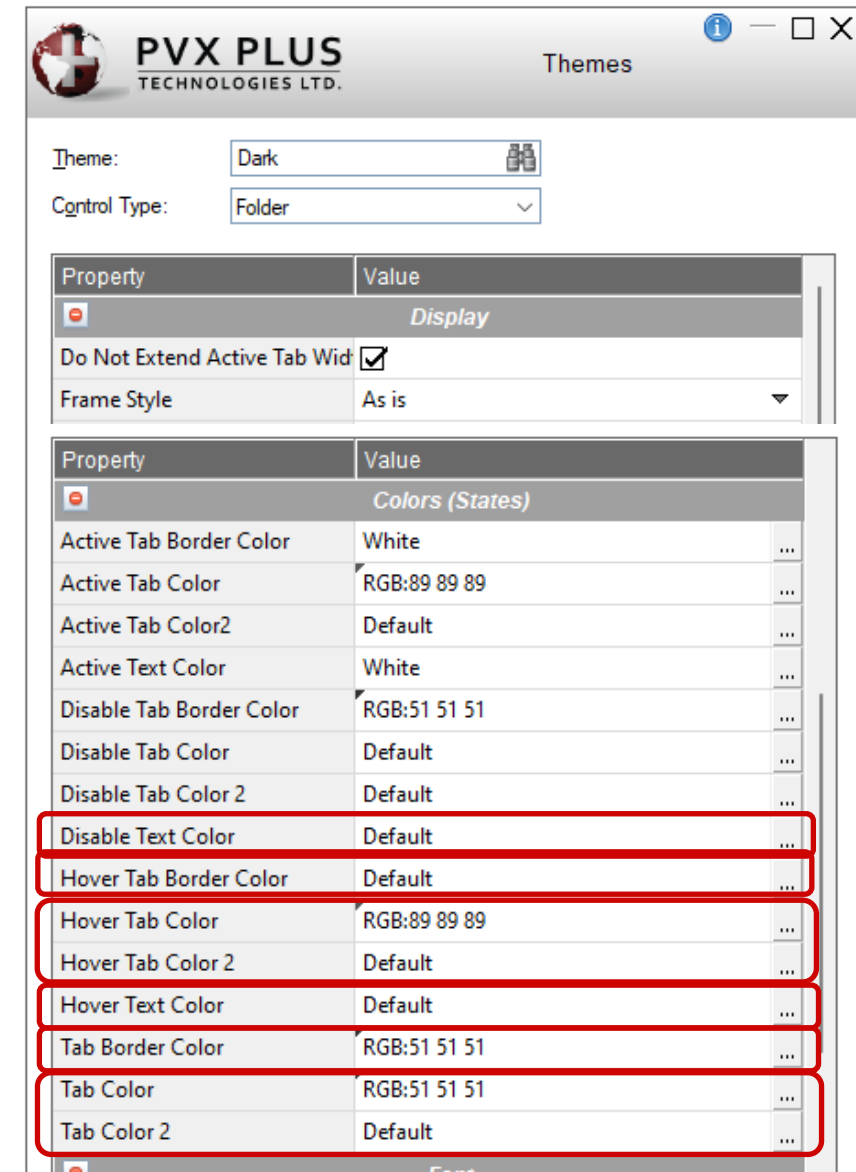
Property	Description
Do Not Extend Active Tab Width	Active tab will remain the same width as inactive tabs when using sidebar folders
Active Tab Border Color	Color of the active folder tab border on sidebar tabs
Active Tab Color, Active Tab Color 2	Background color(s) of the folder tab when the folder is active
Active Text Color	Foreground text color of the folder tab when the folder is active
Disable Tab Border Color	Color of the disabled folder tab border on sidebar tabs
Disable Tab Color, Disable Tab Color 2	Background color(s) of the folder tab when the folder is disabled



THEMES AND VISUAL CLASSES

Folder Properties

Property	Description
Disable Text Color	Foreground text color of the folder tab when folder is disabled
<u>Hover Tab Border Color</u>	Hover color of the folder tab border on sidebar tabs
Hover Tab Color, Hover Tab Color 2	Hover Background color(s) of the folder tab on mouse over
Hover Text Color	Hover Foreground text color on mouse over
<u>Tab Border Color</u>	Color of the folder tab border on sidebar folders
Tab Color, Tab Color 2	Background color(s) of the folder tab when in its normal state

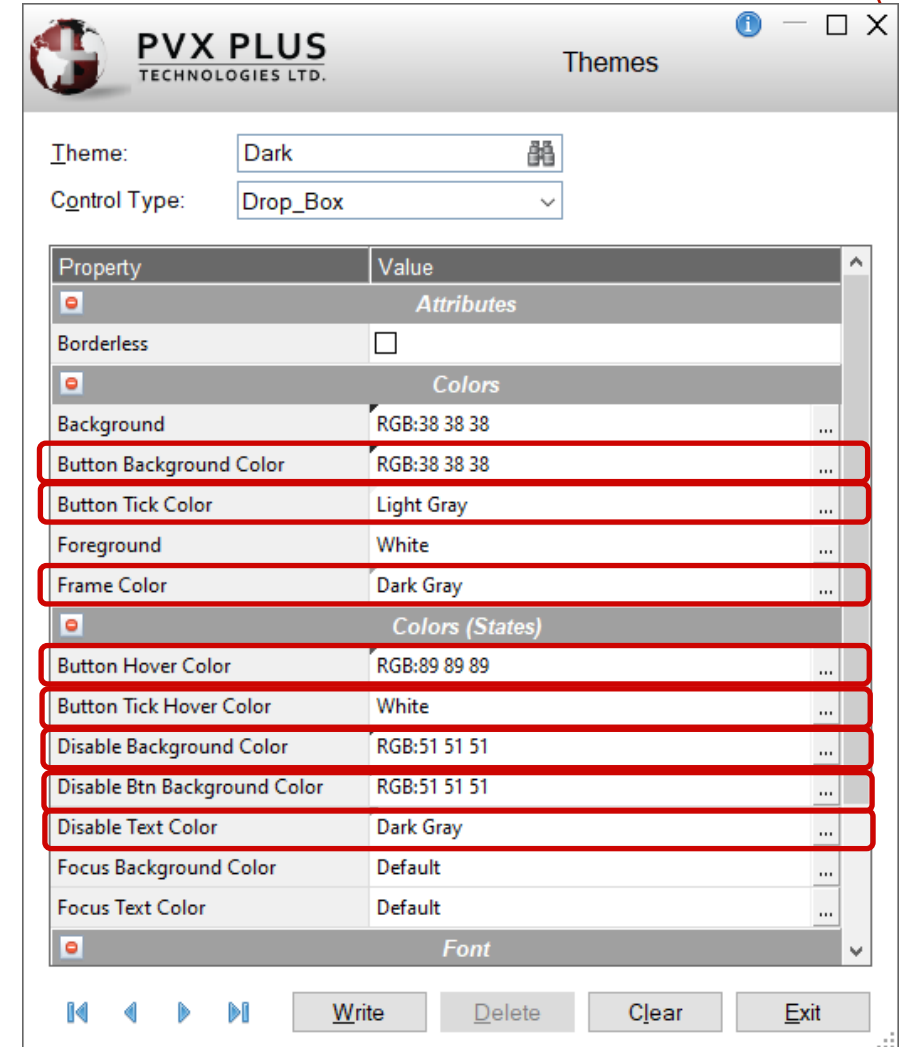


THEMES AND VISUAL CLASSES

Drop Box and Variable Drop Boxes Properties



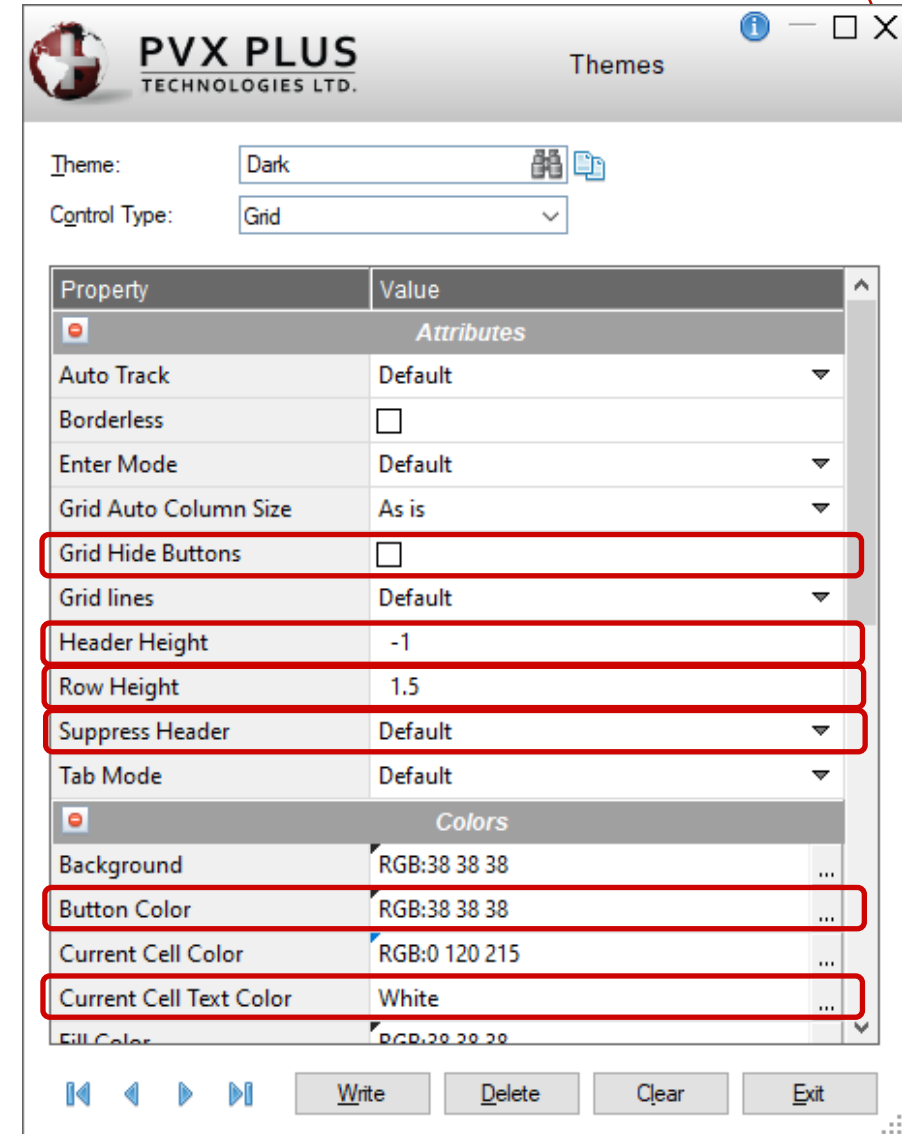
Property	Description
Button Background Color	Background color for the button
Button Tick Color	Color of the tick on the button
Frame Color	Color of the frame/border around the control
Button Hover Color	Hover background color for the button
Button Tick Hover Color	Hover color of the tick on the button
Disable Background Color	Background color when the control is disabled
Disable Btn Background Color	Background color of button when the control is disabled
Disable Text Color	Foreground text color when the control is disabled



THEMES AND VISUAL CLASSES

Grid Properties

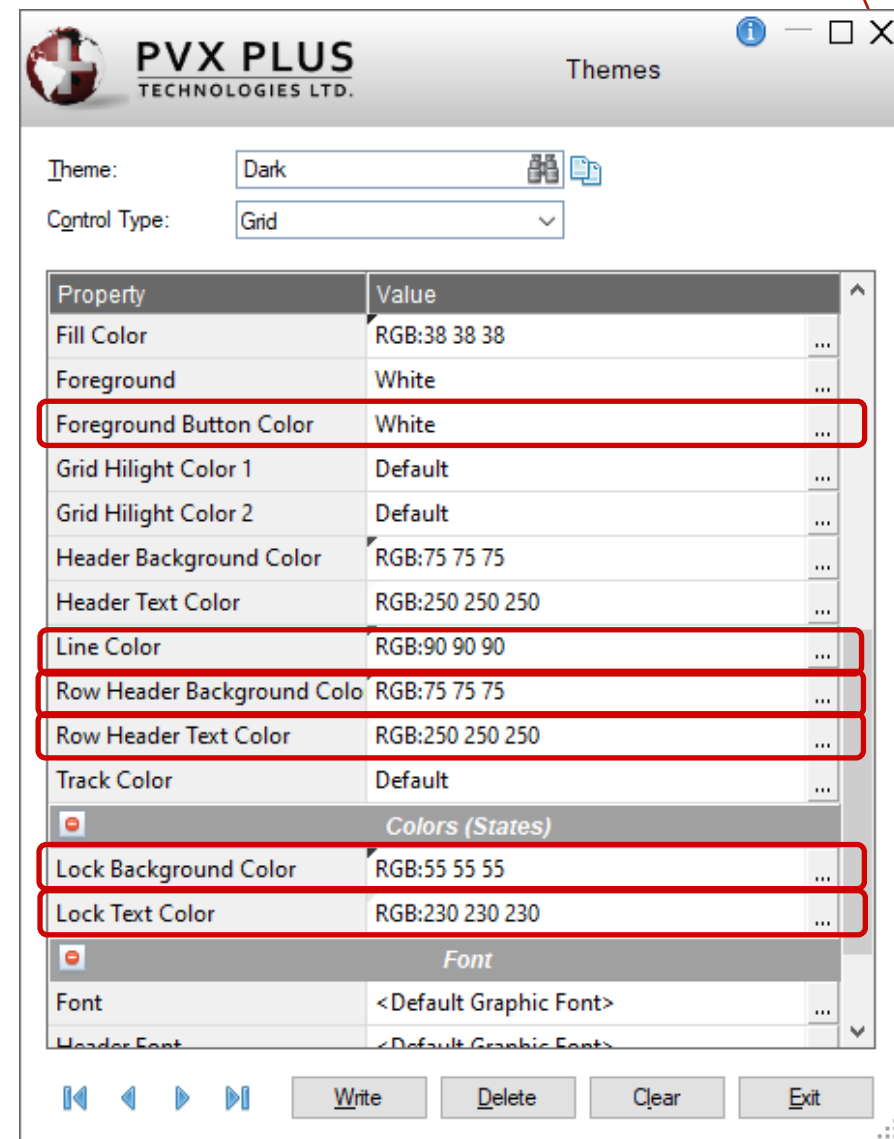
Property	Description
Grid Hide Buttons	Hides query buttons or drop box images associated with grid cells
Header Height	Controls the height of the grid header in pixels -1 restores the height to its default size
Row Height	Controls the row height in the grid New -1 option to default row height
Suppress Header	Suppress headers – row, column, both, none
Button Color	Background color for system-generated buttons
<u>Current Cell Text Color</u>	Text color for current cell



THEMES AND VISUAL CLASSES

Grid Properties

Property	Description
Foreground Button Color	Foreground text color for system-generated buttons
Line Color	Color of the lines drawn between rows and columns
Row Header Background Color	Background color for the leading left column only (colno -1)
Row Header Text Color	Text color for the leading left column only (colno -1)
Lock Background Color	Background color when the cell is locked
Lock Text Color	Foreground text color when the cell is locked

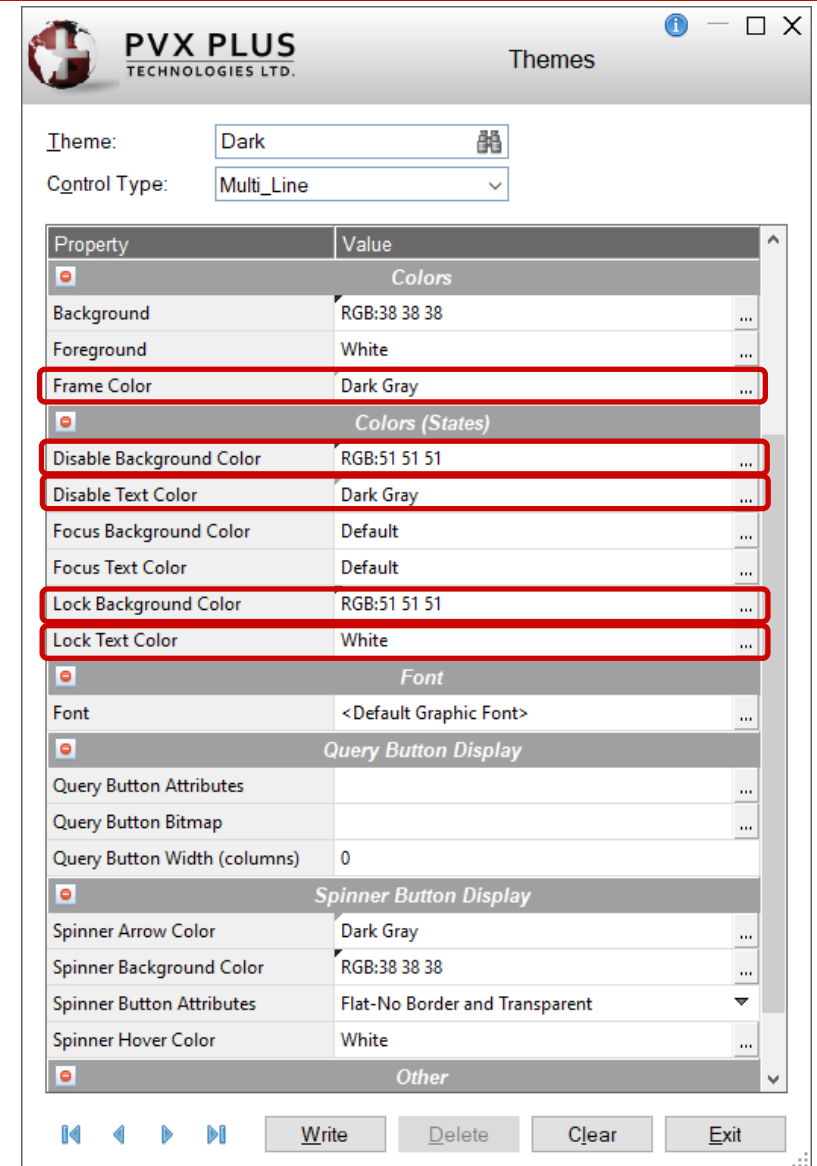


THEMES AND VISUAL CLASSES

Multi-Line Properties

Property	Description
Frame Color	Color of the frame/border around the control
Disable Background Color	Background color when the control is disabled
Disable Text Color	Foreground text color when the control is disabled
<u>Lock Background Color</u>	Background color when the control is locked
<u>Lock Text Color</u>	Foreground text color when the control is locked

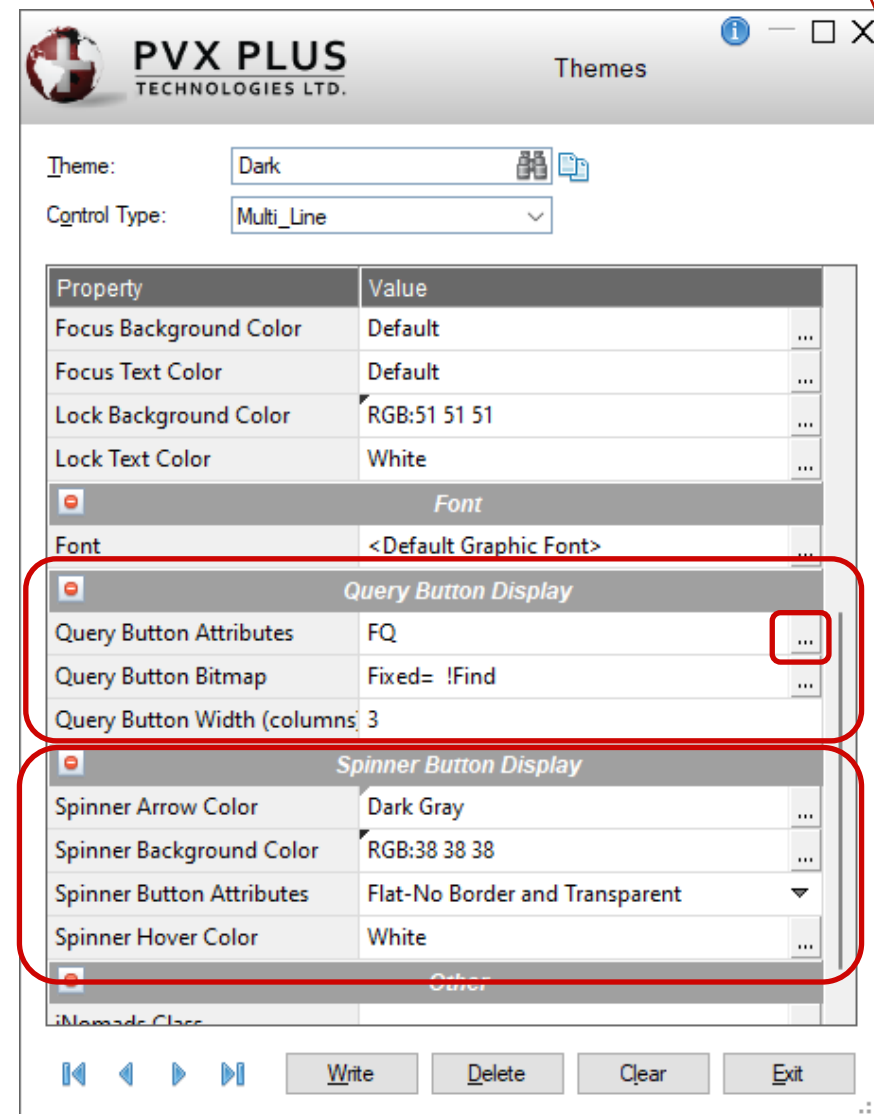
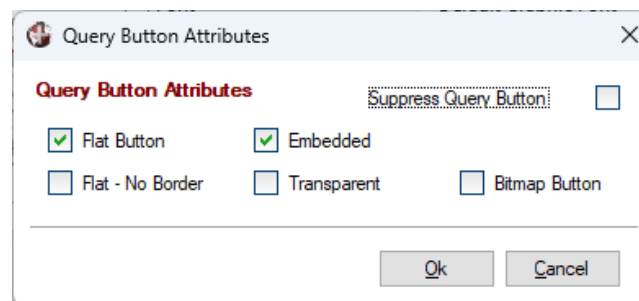
Multi line



THEMES AND VISUAL CLASSES

Multi-Line Properties

Property	Description
Query Button Display	Set options for the query button - Query button attributes - Query button bitmap - Query button width (columns)
Spinner Button Display	Controls the appearance of the spinner button - Spinner arrow color – chevron color - Spinner background color - Spinner button attributes – attributes settings - Spinner hover color – chevron hover color



THEMES AND VISUAL CLASSES

[List Box](#) Properties

Property	Description
Header Height	Header height in Report View lists in pixels -1 restore height to default size
Lines Per Row	Controls line row height New -1 option to use default lines per row
Frame Color	Color of the frame/border around the control
Line Color	Color of the lines for Report and Tree View
Disable Background Color	Background color when the control is disabled
Disable Text Color properties	Foreground text color when the control is disabled

Property	Description (Variable List Box)
Frame Color	Color of the frame/border around the control

