



Graphical Enhancements

DireXions 2025 – Pathways to Progress



What's New in PxPlus 2025

Control Object Properties

Pathways to Progress

Control Object Properties

- [Control Object Properties](#) are configurable settings that define the visual presentation of individual control objects
- Various settings can be defined such as background/foreground colors, fonts, borders, and other attributes
- Applicable to the following graphical controls:
 - Buttons
 - Charts
 - Check Boxes
 - Drop Boxes
 - Grids
 - List Boxes
 - Multi-Lines
 - Radio Buttons
 - Scroll Bars
 - Tree Views
- Can be used for both NOMADS and non-NOMADS applications

Properties added in PxPlus 2025:

- Check Boxes
- Radio Buttons
- Grids
- Drop Boxes
- Variable Drop Boxes
- Multi-Lines
- Multi-Lines Rich Text

Control Object Properties

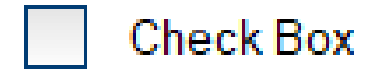
- Setting Control Object Properties
 - Various properties of graphical control objects (i.e. Button, Drop Box, etc.) can be referenced and modified dynamically
 - Use the control's assigned CTL value (ctl_id) followed by the apostrophe operator and the associated property name

Examples

```
StateDropBox.ctl'FrameColor$="Light Green"
```

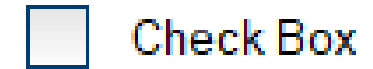
```
ExitButton.ctl'BorderColor$="Red"
```

Check Box Properties



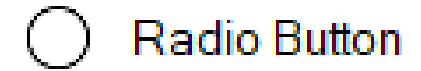
Property	Description	Example
CbDisableFrameColor\$	Sets the frame color for disabled standard Check Boxes	 Check Box
CbDisableMarkColor\$	Sets the color of the check mark or X for disabled standard Check Boxes	 Check Box
DisableBackColor\$	Sets the disabled background color for standard Check Boxes	 Check Box
ActiveBackColor\$	Sets the active background color for standard Check Boxes	 Check Box

Check Box Properties



Property	Description	Example
HoverBackColor\$	Sets the hover background color for standard Check Boxes	 Check Box
HoverBorderColor\$	Sets the hover border color for standard Check Boxes	 Check Box
HoverTextColor\$	Sets the hover text color for standard Check Boxes	 Check Box

Radio Button Properties



Property	Description	Example
RbDisableFrameColor\$	Sets the frame color for disabled standard Radio Buttons	 Radio Button
RbDisableMarkColor\$	Sets the color of the circle for disabled standard Radio Buttons	 Radio Button
DisableBackColor\$	Sets the disabled background color for standard Radio Buttons	 Radio Button
ActiveBackColor\$	Sets the active background color for standard Radio Buttons	 Radio Button

Radio Button Properties



Radio Button

Property	Description	Example
HoverBackColor\$	Sets the hover background color for standard Radio Buttons	 Radio Button
HoverBorderColor\$	Sets the hover border color for standard Radio Buttons	 Radio Button
HoverTextColor\$	Sets the hover text color for standard Radio Buttons	 Radio Button

Grid Properties

	Code	Name	Dept		Hold
1	AK	Anya Kowalski	NORTH	...	☐
2	MA	Mark Anderson	EAST	...	☒
3	OM	Omar Mansour	WEST	...	☐
4	PR	Priya Reddy	NORTH	...	☐

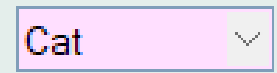
Property	Description	Example																														
CbMarkColor\$	Sets the color of the check mark or X in the Check Box	<table><tr><th></th><th>Code</th><th>Name</th><th>Dept</th><th></th><th>Hold</th></tr><tr><td>1</td><td>AK</td><td>Anya Kowalski</td><td>NORTH</td><td>...</td><td>☐</td></tr><tr><td>2</td><td>MA</td><td>Mark Anderson</td><td>EAST</td><td>...</td><td>☒</td></tr><tr><td>3</td><td>OM</td><td>Omar Mansour</td><td>WEST</td><td>...</td><td>☒</td></tr><tr><td>4</td><td>PR</td><td>Priya Reddy</td><td>NORTH</td><td>...</td><td>☐</td></tr></table>		Code	Name	Dept		Hold	1	AK	Anya Kowalski	NORTH	...	☐	2	MA	Mark Anderson	EAST	...	☒	3	OM	Omar Mansour	WEST	...	☒	4	PR	Priya Reddy	NORTH	...	☐
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LockBackButtonColor\$	Sets the background color for locked system-generated buttons, including Drop Box and Query buttons	<table><tr><th></th><th>Code</th><th>Name</th><th>Dept</th><th></th><th>Hold</th></tr><tr><td>1</td><td>AK</td><td>Anya Kowalski</td><td>NORTH</td><td>...</td><td>☐</td></tr><tr><td>2</td><td>MA</td><td>Mark Anderson</td><td>EAST</td><td>...</td><td>☒</td></tr><tr><td>3</td><td>OM</td><td>Omar Mansour</td><td>WEST</td><td>...</td><td>☒</td></tr><tr><td>4</td><td>PR</td><td>Priya Reddy</td><td>NORTH</td><td>...</td><td>☐</td></tr></table>		Code	Name	Dept		Hold	1	AK	Anya Kowalski	NORTH	...	☐	2	MA	Mark Anderson	EAST	...	☒	3	OM	Omar Mansour	WEST	...	☒	4	PR	Priya Reddy	NORTH	...	☐
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LockForegroundButtonColor\$	Sets the foreground text color for locked system-generated buttons, including Drop Box and Query buttons	<table><tr><th></th><th>Code</th><th>Name</th><th>Dept</th><th></th><th>Hold</th></tr><tr><td>1</td><td>AK</td><td>Anya Kowalski</td><td>NORTH</td><td>...</td><td>☐</td></tr><tr><td>2</td><td>MA</td><td>Mark Anderson</td><td>EAST</td><td>...</td><td>☒</td></tr><tr><td>3</td><td>OM</td><td>Omar Mansour</td><td>WEST</td><td>...</td><td>☒</td></tr><tr><td>4</td><td>PR</td><td>Priya Reddy</td><td>NORTH</td><td>...</td><td>☐</td></tr></table>		Code	Name	Dept		Hold	1	AK	Anya Kowalski	NORTH	...	☐	2	MA	Mark Anderson	EAST	...	☒	3	OM	Omar Mansour	WEST	...	☒	4	PR	Priya Reddy	NORTH	...	☐
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Drop Box Properties

Property	Description	Example
HoverBackColor\$	Sets the hover background color for Drop Boxes and Variable Drop Boxes	
HoverBorderColor\$	Sets the hover border color for Drop Boxes and Variable Drop Boxes	
HoverTextColor\$	Sets the hover text color Drop Boxes and Variable Drop Boxes	

Note: In PxPlus 2024, we added the ability to control drop arrow colors and drop arrow background colors

Multi-Line Properties

ABC Company Ltd

Property	Description	Example
HoverBackColor\$	Sets the hover background color for Multi-Lines and Rich Text Multi-Lines	ABC Company Ltd
HoverBorderColor\$	Sets the hover border color for Multi-Lines and Rich Text Multi-Lines	ABC Company Ltd
HoverTextColor\$	Sets the hover text color for Multi-Lines and Rich Text Multi-Lines	ABC Company Ltd

Control Object Properties

- We've introduced many new similar properties across various controls, ensuring your applications maintain a consistent and modern look and feel

NOMADS Grid Presets

New Properties Added

- [CbMarkColor\\$](#) - Sets the color of the check mark or X in the check box
- [HdrLineColor\\$](#) - Sets the color of the border lines drawn between columns when the 'ExcelStyle' property is set for the top row only of the grid and does not affect the leading left column
- [LockButtonColor\\$](#) - Sets the background color for locked system-generated buttons in a grid, including drop box buttons and query buttons
- [LockForegroundButtonColor\\$](#) - Sets the foreground text color for locked system-generated buttons in a grid, including drop box buttons and query buttons
- [RowHeaderLineColor\\$](#) - Sets the color of the border lines drawn between rows when the 'ExcelStyle' property is set for the leading left column only of the grid and does not affect the grid top row



What's New in PxPlus 2025

Themes and Visual Classes

Pathways to Progress

Themes and Visual Classes

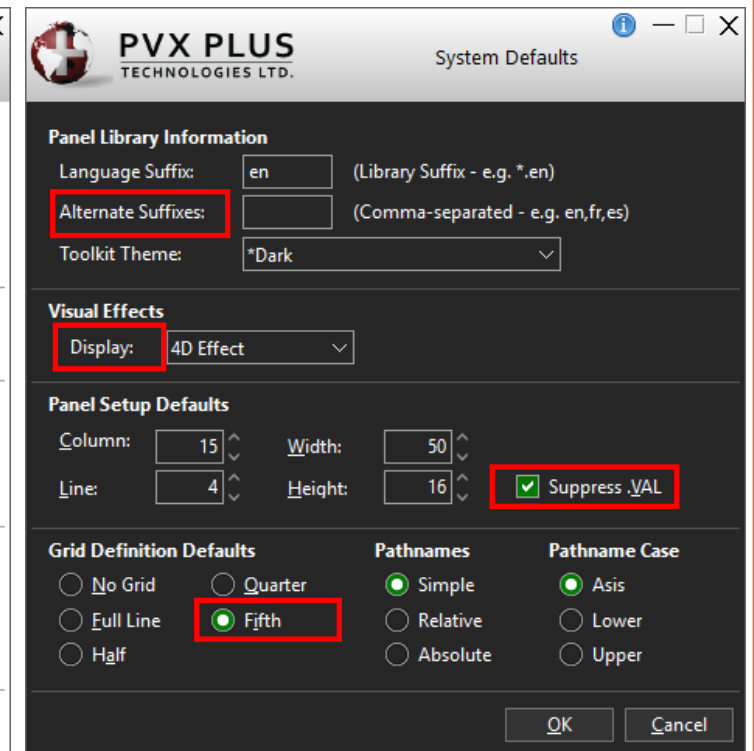
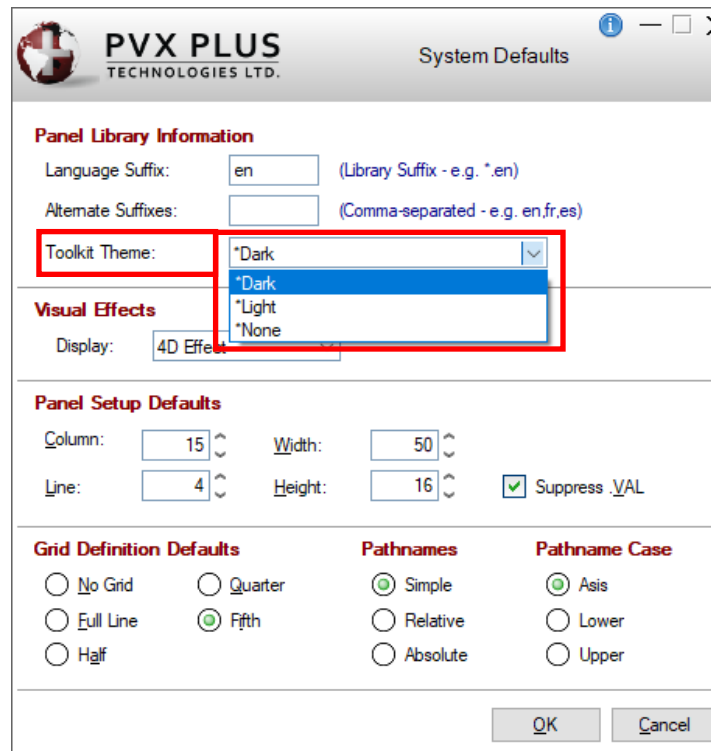
- Are used to define style settings and other attributes for a group of controls or individual controls
 - [Themes](#) are used to set the style for all controls of the same type
 - Set globally, library defaults, panel header
 - [Visual Classes](#) are used to set the style of individual controls
 - Visual Classes override the Theme
- All new control object properties have also been incorporated into applicable Themes and Visual Classes

Classes enhanced in PxPlus 2025

- Check Boxes
- Tri-State Check Boxes
- Drop Boxes
- Variable Drop Boxes
- Grids
- Multi-Lines
- Radio Buttons

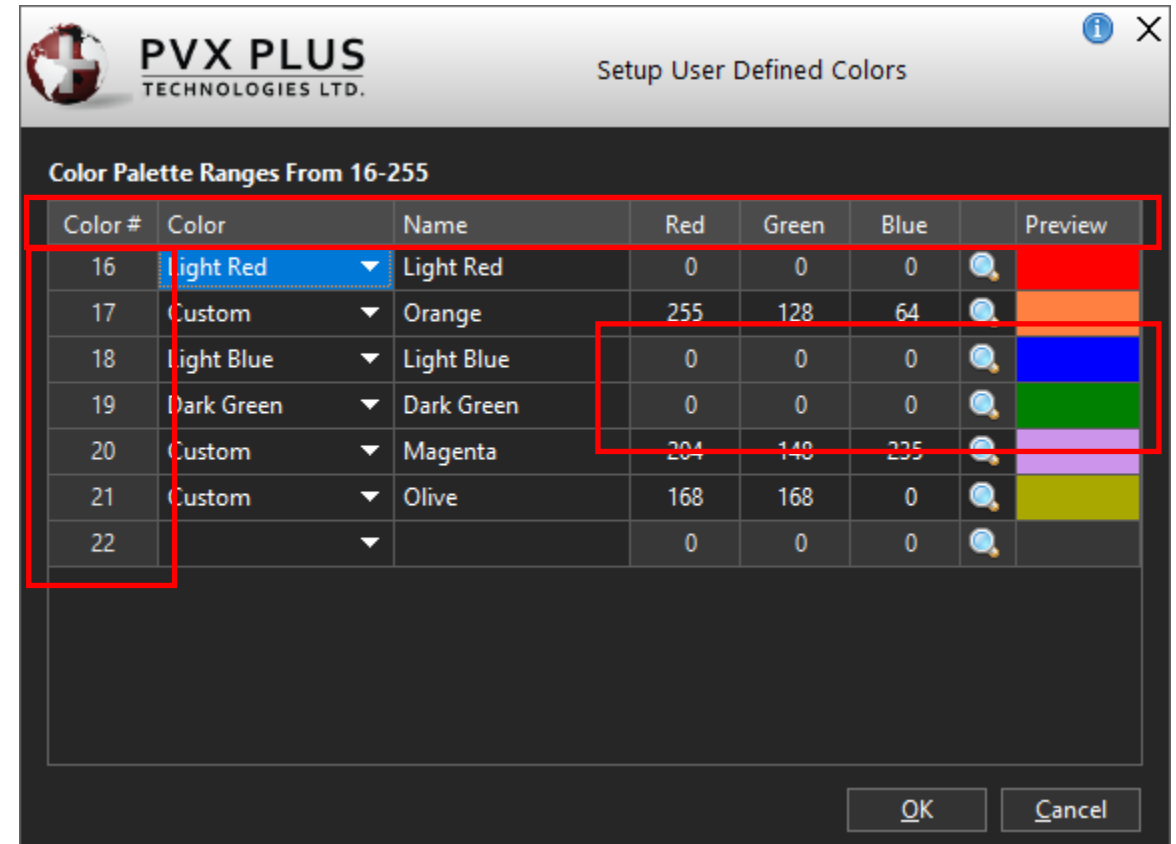
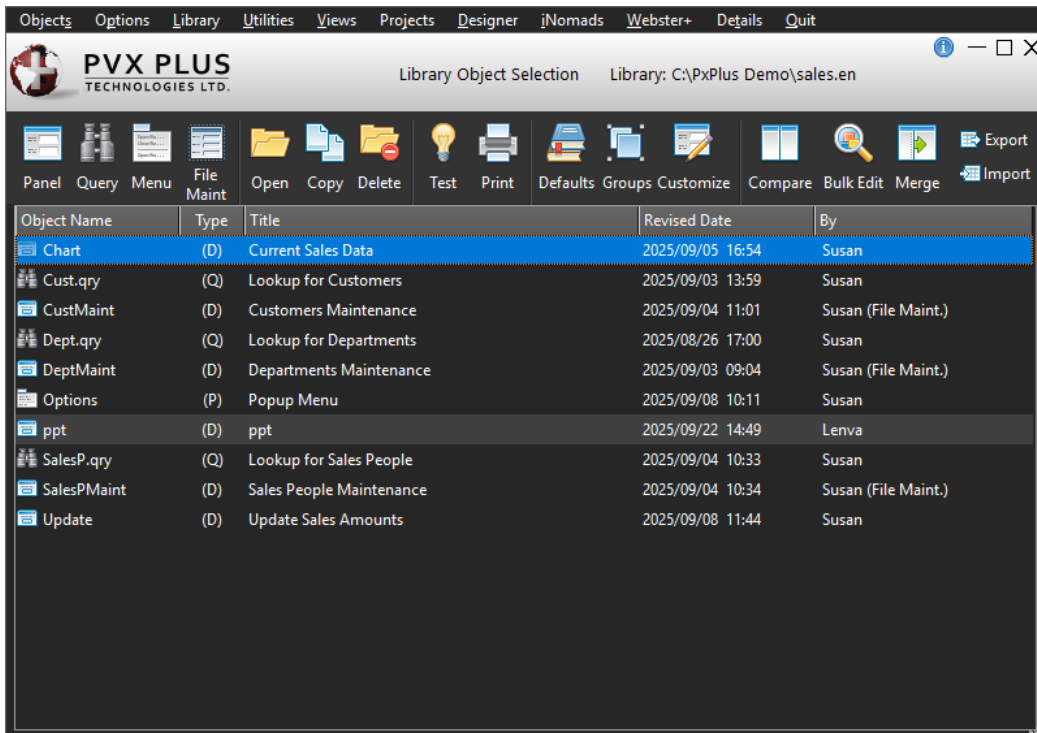
Modernization

- With these new properties, we're advancing the modernization of our toolkit and helping your applications stay ahead
- In 2024, we introduced Dark and Light Toolkit Themes to enhance the toolkit experience
- Easily set your Toolkit Theme right from System Defaults
- Enhanced the Dark & Light mode themes with new properties - new checkbox & radio buttons properties
- Implemented new modern font in both Toolkit Themes



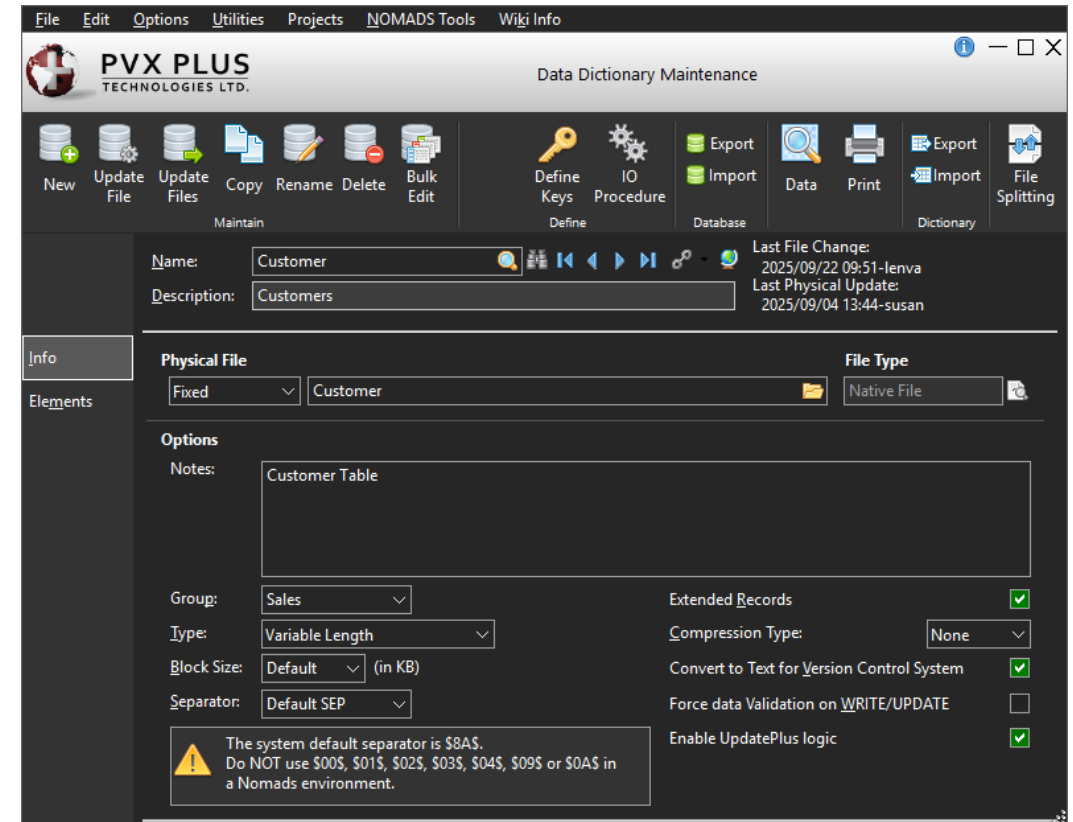
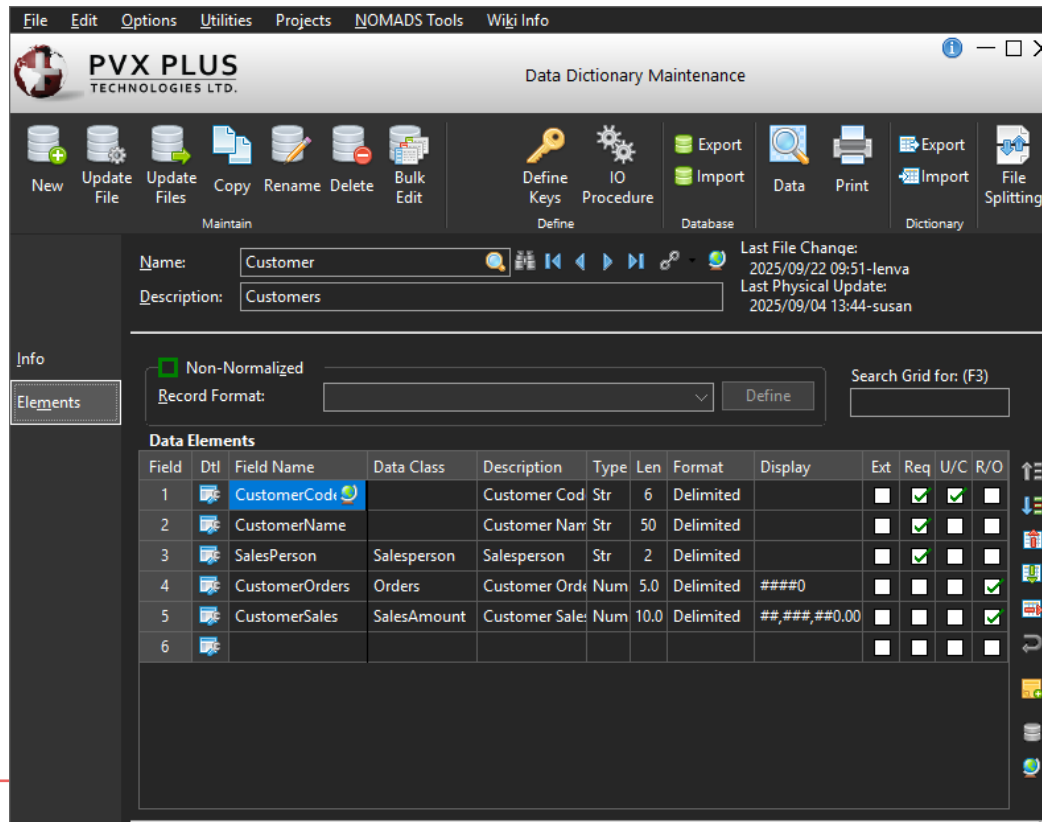
Modernization

- These screens highlight the many options available to customize and enhance your application



Modernization

- These screens highlight the many options available to customize and enhance your application

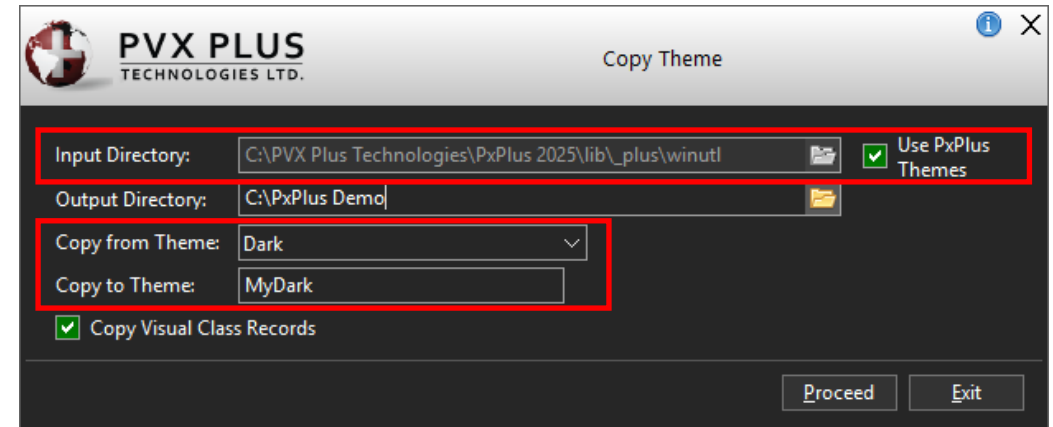


Modernization

- The Copy Theme utility, introduced in 2024, makes it easy to create multiple themes—including your own Dark and Light modes from our system themes
- Control Object Properties, Themes/Visual Classes, and Option Mnemonics are designed to improve your application's interface
- At last year's DireXions, we showcased how these tools can be used—whether your application is built with NOMADS or non-NOMADS

Useful Links

[Application Look and Feel – DireXions 2024](#)





What's New in PxPlus 2025

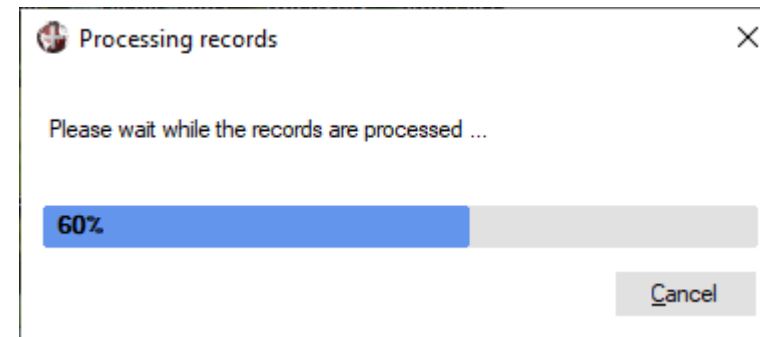
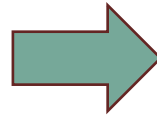
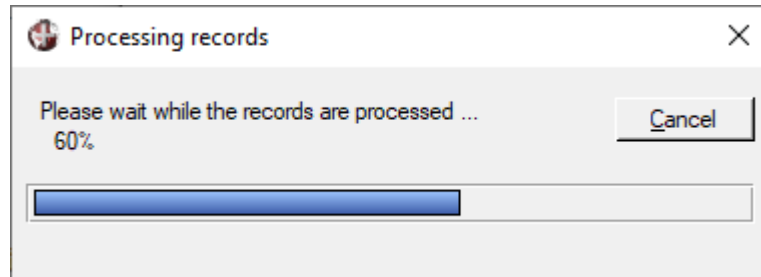
Progress Bar Enhancements

Pathways to Progress

Standard Progress Bar

Modernized the Appearance

Redesigned the standard progress bar with a modern, polished look



- White background
- Moved Cancel button below the progress bar

- Flatter progress bar appearance
- Moved Percentage indicator inside the progress bar

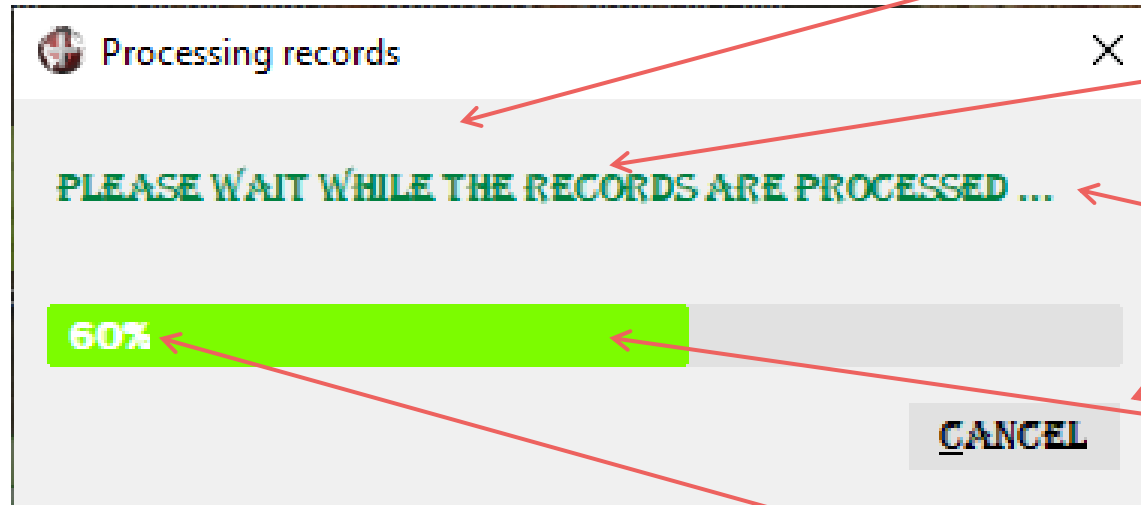
Customize the Progress Bar

Five New Global Variables

Global Variable	Description	Example
%_PROGBAR_BAR_CLR\$	Color of the progress bar meter	"#7CFC00"
%_PROGBAR_BACK_CLR\$	Background color of the dialog	"Light Gray"
%_PROGBAR_FONT\$	Font used for text and Cancel button	"Algerian"
%_PROGBAR_PERCENT_CLR\$	Color of the Percentage indicator	"White"
%_PROGBAR_TEXT_CLR\$	Color of the text (does not affect the Cancel button)	"RGB:0 128 64"

- Can be set at any time before initializing a progress bar
- Colors can be set as one of the 16 standard colors, custom RGB colors, a User-Defined color or Hex color code

Customized Progress Bar Example



- %_progbars_bar_clr\$="Light Gray"
- %_progbars_text_clr\$="RGB:0 128 64"
(Dark Green)
- %_progbars_font\$="Algerian" (Green)
- %_progbars_bar_clr\$="#7CFC00"
(Lawn Green)
- %_progbars_percent_clr\$="White"

Progress Bar

Useful Links

[Using the Progress Bar](#)

[How To Customize the PxPlus Progress Bar](#)

Video

[PxPlus Progress Bar Video](#)