WHAT'S NEW IN THE IDE, NOMADS AND TOOLKIT

DireXions 2024

AGENDA

1. <u>IDE</u>

- Integrated Development Environment
- 2. PROJECTS
- 3. NOMADS PANEL DESIGNERS
- NOMADS+, Folder Style and Property Sheets
- 4. UTILITIES



IDE



CURRENT IDE

IDE MAIN LAUNCHER

Switch between
 Enhanced and Standard
 IDE

ENHANCED IDE

- Online Help
- Configurable Ribbon Toolbar and Folders

STANDARD IDE

- May still be used with no internet connection
- Uses less desktop space





CUSTOMIZABLE RIBBON TOOLBAR



TOOLBAR BUTTONS

- Define up to 10 buttons for commonly accessed tasks
- Drag tasks from IDE Menu or use Toolbar button
- Last Library task present after installation but can be deleted

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1	LAST_LIB	Last Library	!32X32/Objects/Books	LE Move Do
2	PROJ_LIB	Open Proj. Lib	!32X32/Folders/Green	
3	LIB_BULK_EDIT	Library Bulk Edit	!32X32/System/Control_Panel_Access	Delete R
4	DATA_DICT	Data Dictionary	!32X32/Wordpro/Underle_Dictionary	
5	VIS_CLASSES	Visual Classes	!32X32/Wordpro/Page_Gear	
6				
7				
8				
9				
10				

CONFIGURABLE FOLDER TABS

🗔 Toolbar	🦈 Folders	🔍 Find 🙆 H	Home 🗸 Ba	ack [Forward	参 Refresh
Help	PVX Plus	Blog TO	CBC N	lews	
			PLUS		*
- In	We Magas	BUILT FOR BU	ISINESS	JS	
■ Mt	ENU	چ CALL		⊂ Email	•

FOLDER TABS

- Help tab cannot be deleted
- Folders button allows up to 9 other tabs to be defined with a Tab Name and a URL
- Chromium Web Browser control

🔮 Mai	intain IDE HTML Tabs		_		\times
IDE H	TML Tabs				
Tab#	Tab Name	Tab URL	1 Te	Move	Up
1	Help	https://manual.pvxplus.com	18	Move D	own
2	PVX Plus	https://pvxplus.com	~	NIOVE D	own
3	Blog TO	www.blogto.com		D <u>e</u> lete I	Row
4	CBC News	https://cbc.ca/news			
5	~				
6	PxPlus Forum				
7	Forum KSS Feed				
8					
9					
10					
		<u>0</u> K		<u>C</u> anc	el .

NEW POPUP MENU OPTIONS





POPUP MENU

- Right-click Popup Menu on Menu panel of IDE
- Enhanced IDE has Add to Toolbar option
- Standard IDE has Show Task Help
 option
 Insert Task

Insert Task on <u>M</u>enu Delete Task

Show Task <u>H</u>elp

TOOLBAR BUTTONS

- Right-click Popup Menu on Toolbar Buttons
 - Delete from Toolbar
 - Maintain Toolbar

IDE MENU BAR

ONLINE UPDATES

 In the IDE top menu Update changes to *Update* when an online update is available for the installed PxPlus version



ONLINE HELP

• Launches full online **PxPlus Reference Manual** from our website

WEB IDE (INOMADS)



IDE MAIN LAUNCHER (WEB)

- IDE Launcher now uses the same Enhanced IDE panel
- iNomads Template uses Hamburger menu
- Some tasks that will not function or do not apply to an iNomads environment are suppressed

NEW IDE TASKS

GRAPHICAL APPLICATION BUILDER (NOMADS)

- Open Project Application Library
- Panel Definition (not on Web IDE)
- Query Definition
- Menu Bar Definition
- File Maintenance Generator
- Maintain NOMADS Environment
- Setup
 - Copy Theme

DATA MANAGEMENT

User Reserved Words Maintenance

VIEWS

• Data Source Wizard

SECURITY

• OAuth2 Client Maintenance

INSTALLATION AND SETUP

• System Analysis

WEB DEPLOYMENT

- Install Webster+ (not on Web IDE)
- Launch Webster+ Using EZWeb (not on Web IDE)
- Webster+ Desktop Configuration



PROJECTS



WHAT IS A PROJECT?

PROJECT OVERVIEW

- A method for organizing and managing the various tasks used in the development of business applications
- Defined by a project Directory

WHY USE PROJECTS?

- 1. Always in the proper environment
 - IDE tasks change to the project Directory and attempt to run a start_up program before spawning the task
- 2. Provides easy access to tasks (programs, panels, etc.) via the IDE History or Project tabs
 - <u>Adding Tasks to Projects</u>
 - <u>Project Maintenance Utility</u>

IDE TABS

HISTORY

- Rolling list of the last 25 tasks ٠
- Favorites at the top ٠



PROJECT

 Tasks added to project organized by type for easy access

Ιοοί Γιρ	Projects
Task Type Icons	
 Dialog Window Popup Menu Query Program Report Data File Data Dictionary Library HTML Editor 	
	1



PROJECTS NOW SURVIVE UPDATES

PRIOR TO PXPLUS 2023

- Project data was stored in PxPlus data files in *plus/proj directory
 - WKIDS.DAT (Project data)
 - WKSEQ.DAT (Project contents)
- Project data was lost each time a new version of PxPlus was installed
- Project Location panel was developed to move the files to an alternate location and replace original files with link files

SINCE PXPLUS 2023

- Project data now stored by user in .ini text files outside of the PxPlus installation
 - projects.ini (Project data)
 - Individual settings (.prj) files (Project contents)
- Project data is now unaffected by a new PxPlus install
- Different settings may now be defined for each project

DEFAULT PROJECT

DEFAULT PROJECT

- Created the first time the IDE is run if it does not already exist
- Cannot be deleted
- Uses the current PxPlus directory as the project Directory
- Can be the only project defined
- Uses nomads.ini as Settings File

🔮 Edit Project	— 🗆	×
Project:	Default	\sim
Name:	Default	
Directory:	C:\PVX Plus Technologies\PxPlus	2
Settings File:	nomads.ini	
Title Bar Color:	Default 🧐	
Prefix File:		2
Default Library:		2
	<u>O</u> K <u>C</u> ance	el

May need updating after a new version is installed now that Project information survives updates

SETTINGS BY PROJECT

SETTINGS SAVED BY PROJECT

- IDE
- NOMADS System Defaults
- Library Object Selection
- NOMADS Panel Designer
- *IT (Integrated Toolkit) & Ed+ Editor

- Report Designer
- Port Numbers
 - EZWeb Server
 - Webster+ Installation
- Database Information
 - Bulk Database Export Utility
 - Database Import Utility
- Copying a project will also copy the settings

• HTML Editor

IDE MENU

<u>Projects</u> <u>M</u> enu <u>U</u> pdate	<u>A</u> bout	<u>S</u> upport	<u>O</u> nline Help	<u>R</u> elease Notes			
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Edit Project	US				PxPlus 2024 IDE : DEMO 2024		
Delete Project	S LTD.						
Copy <u>P</u> roject	_			_		_	
Project Maintenance							
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				Project	Library Lib Bulk Edit Dictionary		
<u>M</u> enu	9 <u>H</u> i	story	Pro	ject 📢	Toolbar 🏴 Folders 🛛 🔍 Find 🟠 Home 🔶 Back 🔅 Forward	🌮 Re	efresh

IDE MENU OPTIONS

- Create Project (or New Project button)
- Edit Project (or Project hyperlink)
- Delete Project
- Copy Project
- <u>Project Maintenance Utility</u>
- Project Location removed

CREATE PROJECT (2019 VS. NOW)

CREATE PROJECT DIALOG

😗 Create P	roject X
Create a l	New Project
Name:	
Directory:	C:\PVX Plus Technologies\PxPlus 2019 Upd 2 🛛 📄
Access:	Private ~
	<u>O</u> K <u>C</u> ancel

🔮 Create Project				×
Create a New F	Project			
Name:				
Directory:	C:\PVX Plus Technologies\PxPlus			E
Settings File:				
Title Bar Color:	Default	-		
Prefix File:				
Default Library:				F
	<u>O</u> K		<u>C</u> an	cel

- Added Settings File, Title Bar Color, Prefix
 File and Default Library options
- Removed Access drop box

THE SETTINGS FILE

SETTINGS FILE

- Used to store project contents and project specific settings
- Defaults to Project Name + ".prj" but can be changed
- Can be shared between projects (i.e. nomads.ini)

🔮 Edit Project	— D X
Project	Demo 2024 ~
Name:	Demo 2024
Directory:	C:\PVX Plus Technologies\PxPlus\lib_demo\2024 🛛 😁
Settings File:	demo_2024.prj
Title Bar Color:	Default 🧐
Prefix File:	
Default Library:	C:\PVX Plus Technologies\PxPlus\Lib_demo\2024\sc 🛅
	<u>O</u> K <u>C</u> ancel

TITLE BAR COLOR

TITLE BAR COLOR

- Helps to identify the current project
- Default is Light Gray

тесни	OLOGIES LTD.		Data [Dictionary I	Maintenance				
New File	Update Cop	Rename Delete Bulk Edit	Define Keys Define	IO Procedure	Export Import	Q Data	Print C	Export Import	File Splitting
	Name: Description:	Task definitions	Q M H	с н н	9 L	est File Chan 2016/03/04 10 est Physical U 2024/01/31 11	ge: k07-Susan Jpdate: k18-Susan		
Info	Physical File	Edd Banks det					File Type		
Elements	rixed	 Meyteska.dat 				-	140310110		
	Options								
					Extended Reco	rds			
	Group:	~ ~							
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Projects	Menu	Update	About	Support	Online Help	Release No	otes		
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Proj	<u>ect</u>	IDE				~ #			
	Menu	J	۹	Histo	ny 🗌	E Pr	oject		H
	Plus IDE Program Ed+ System Graphic Ope Ope Ope Ope Main Syst Main Syst Syst V N N N N N N N N N N N N N	m Editor (Utilities al Applic the Applic n Applica n Project el Definiti y Definiti u Bar De Maintena en Defa stain NOM p Iser Defin hemes fisual Cla fessage ibrary La	*IT) ation Bi ation Lib Applica on finition ince Gen Uts MADS E hed Colo sses Library I nguage	iilder (NO brary rary tion Libra nerator nvironmer prs Maintenar Translati	MADS) ry nt nce on			*	

BRIDGING THE PAST AND THE FUTURE

🔮 Edit Project	— 🗆 X
Project	IDE ~
Name:	IDE
Directory:	C:\PVX Plus Technologies\PxPlus\Lib_ide 📄
Settings File:	ide.prj
Title Bar Color:	Light Cyan 🧠
Prefix File:	
Default Library:	C:\PVX Plus Technologies\PxPlus\Lib_ide\ide.en
	<u>Q</u> K <u>Cancel</u>

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THE PREFIX FILE

OPTIONAL PREFIX FILE

- Specify Search rules in keyed file
 - PREFIX Directive
 - <u>Creating the Prefix File</u> (databases)
- If a prefix file is defined and not set in the start_up program, code executes <u>PREFIX FILE</u> command when any task is spawned

🔮 Edit Project	— 🗆	×
Project:	IDE	~
Name:	IDE	
Directory:	C:\PVX Plus Technologies\PxPlus\Lib_ide	
Settings File:	ide.prj	
Title Bar Color:	Light Cyan 🧐	
Prefix File:	prefix_file_name	F
Default Library:	C:\PVX Plus Technologies\PxPlus\Lib_ide\ide.en	F
	<u>O</u> K <u>C</u> an	cel

PREFIX FILE prefix_file\$

DEFAULT LIBRARY

🔮 Edit Project	- 0	×
Project	IDE	\sim
Name:	IDE	
Directory:	C:\PVX Plus Technologies\PxPlus\Lib_ide	
Settings File:	ide.prj	
Title Bar Color:	Light Cyan 🧐	
Prefix File:		F
Default Library:	C:\PVX Plus Technologies\PxPlus\Lib_ide\ide.en	F
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OPTIONAL DEFAULT LIBRARY

- Defines the library to be opened in Library Object Selection when using the new Open Project Application Library task
- Other new tasks added to IDE all default to using the project Default Library
 - Panel Definition
 - Query Definition
 - Menu Bar Definition
 - File Maintenance Generator



NEW HTML TASK TYPE

HTML TASK TYPE

- Added HTML Editor task type for the History and Project tabs
- HTML pages can now be added to projects from the Project Maintenance Utility, Popup Menu on IDE History tab or the HTML Editor IDE task

Task Type Icons



Add to Project	HTML Editor	❶ — □ X
Document Edit Insert View Format Tabl	He Help ✓ System Font	
	Vebster Shortcodes \vee 🕥 Webster Preview	

OTHER PROJECT ENHANCEMENTS

CREATE NEW PROJECT BUTTON

• Added to IDE



NOMADS PANEL DESIGNERS

• Project displayed in all designers (if set)

INOMADS - Panel: Product Library: C:\PVX Plus Technologies\PxPlus\lib_demo\2021\Data\Scrnlib.En	- 🗆 X
Panel Edit Controls Options Utilities Sizing Projects iNomads Panel Details Wiki Info Help Quit Project: Demo 2)21
NOMADS+ Toolbar	Suppress Groups 🔻 🕕 Help

ACCESS TO FILE MAINTENANCE GENERATOR

 Accessing a NOMADS File Maintenance generated panel from History or Project tabs can also launch the Generator





NOMADS PANEL DESIGNERS



MIXED CASE CHARACTERS (2020)

MIXED CASE CHARACTERS

- Mixed Case characters can now be used when defining controls/records in all panel designers and utilities
 - Many previously enforced all CAPS
 - Case insensitive

	LUS ES LTD.	Visual Classes	0 -	
Class <u>N</u> ame:	ButtonBitmap		29	
Class Theme:	Catauto		~	
Control Type:	Default	~		
Description:	Bitmap Button			
Property	Valu	e		
•		Colors		
Background	Defa	ult		
Foreground	Defa	ult		
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Font	<det< td=""><td>ault Graphic Font></td><td></td><td></td></det<>	ault Graphic Font>		



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COLOR SELECTION (2020)

COLOR SELECTION DIALOG

- Standardized the <u>Color</u> <u>Selection</u> dialog for color lookups in all panel designers and utilities
 - Standard Colors
 - RGB Colors
 - User Defined Colors
 - Expressions
 - HTML Hex Color Code (PxPlus 2023)

G Color Selections	– 🗆 X
Current Color	Preview
Name: Default	
Description: Default	
Standard (0-15) Use Default	User Defined (16-254)
Custom R: 0 C B: 0 S S	HTML Hex Color Code #
Expression	
	<u>O</u> K <u>C</u> ancel

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AliceBlue	F0F8FF	
AntiqueWhite	FAEBD7	
Aqua	00FFFF	
Aquamarine	7FFFD4	
Azure	F0FFFF	
Beige	F5F5DC	
Bisque	FFE4C4	
Black	000000	
BlanchedAlmond	FFEBCD	
Blue	0000FF	
BlueViolet	8A2BE2	
Brown	A52A2A	
Burlywood	DEB887	
CadetBlue	5F9EA0	\sim

DRAG AND DROP UTILITY (2020)

CONCURRENT PANELS

- Ability to define <u>Drag and Drop</u> settings for variables on concurrent panels
 - Drag From and Drop On inputs are now variable drop boxes to allow controls from concurrent panels to be entered

PVX PLUS TECHNOLOGIES LTD.		Drag and Drop Utility		1) — 🗆 X
Drag From	Drop On IRID_1 IRID_1 T	Logic Perform= ";Drop_on_grid"		Insert Above Insert Below ■ Delete
			<u>O</u> K	<u>C</u> ancel

DRAG FROM *FILE (not supported in iNomads)

 Use *FILE to allow files from external applications (such as Windows Explorer) to be dropped onto a destination input control.

TECHNOLOGIES L	IS.		Drag and Drop Utility	() — □ X
Drag From *FILE	Drop On LB2	~	Logic Execute= perform "listbox write"	 Insert <u>A</u> bove Insert <u>B</u> elow

LIBRARY COMPARE (2020)

LIBRARY COMPARE DIALOG

Added Case Sensitive check box to NOMADS Library Compare Utility



SCREEN MAXIMUMS (2021)

LARGER PANELS

- Support larger NOMADS panels in all designers
 - 620 wide x 255 high (was 255 wide x 240 high)

MORE CONTROLS

- Increased maximum number of controls on a panel from 200 to 999
 - Some special considerations for folders, concurrent panels and embedded panels

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	Panet BIG
<u>D</u> isplay	Title
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Attributes	Fixed V
Logic	Tag Field. Precision: <asis> ~</asis>
<u>U</u> ser Aids	Position Size Absolute ✓ Column: 0 Ω Width: 620 Ω
jNomads Settings	Line: 0 C Height 255 C
∐itleBar	Panel Transparency (0 - 100%) [Fixed ~] 0
	Background Image Image Alignment
	Image: Widget Image: Original Contered Tip Left Tiled Image: Widget Centered Scaled
	Security Popup Menu



DESIGNER UI UPDATES (2021)

NOMADS	 Panel:PRODUCT_MNT Library:C:\PVX Plus Technologies\PxPlus\Lib_demo\2024\scrnlib.en 	-	×
anel Edit	Controls Options Utilities Projects iNomads Panel Details Help Quit		
. 😡	9 20 File Properties Test Header Ots Tabs BulkEdit DragDrop	Re-Size	
lomac	S		
Graphical D	evelopment Environment		
introls			
	Product File Maintenance		
i 🗗 📼	Product Code:		
4 🗷	Product Description:		
I 🧐 🛙	Price:		
- 🗄 🖽	Quantity on Hand:		
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FOLDER STYLE / PROPERTY SHEETS

 UI updates to remove outdated NOMADS title bar

Panel	Fort	Controis Op	tions		Projects	LB1:	Panel De	italis <u>H</u> eip	wind	tow Quit		~	Tes
No	mad	s											
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Contro	ls ,	<u> </u>										_	
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										List Values			





SUPPRESS GROUPS (2021)

SUPPRESS GROUPS FUNCTIONALITY

- <u>Suppress Groups</u> button allows controls to be suppressed by group when designing a panel
 - Controls no longer display in 'work' window
 - Useful when working with a lot of overlapping controls



BUTTON CHECKBOX TEXT	
СНЕСКВОХ ТЕХТ	
ТЕХТ	

GROUPS SUPPRESSED

🛞 NOMADS - Panel: Suppres	ss Library: C:\PVX Plus Techno	ologies\PxPlus\Lib_demo\2021\data	a\v2024.en					_		×
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NOMADS+ Toolba	r						S	uppress Groups 🔻	1 Hel	p
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CHECK_BOX_1	Chock Box	Check Box 1	16.0	5.00	18.00	2.00	2	Fixed		3
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* BUTTON_2	📰 Button	Button 2	19.0	6.00	10.00	6.00		Fixed		E
* BUTTON_3	35 Button	Button 3	34.0	6.00	10.00	6.00		Fixed		E
CHECK_BOX_2	🔢 Check Box	Check Box 2	16.0	8.00	18.00	2.00	Z	Fixed		E
CHECK_BOX_3	🔢 Check Box	Check Box 3	16.0	0 11.00	18.00	2.00	\checkmark	Fixed		1 1 1
* FONTED_TEXT_1	Fonted text	Fonted Text 1	15.0	5.00	22.00	2.20		Fixed		E
* FONTED_TEXT_2	Fonted text	Fonted Text 2	15.0	8.00	22.00	2.20		Fixed		E
* FONTED_TEXT_3	Fonted text	Fonted Text 3	15.0	11.00	22.00	2.20		Fixed		E C
Fonted text - Col:0 Ln:0 Wd:	:1 Hi:1 (Groups)							All Groups Not	Displayed	.:



SMART CONTROLS (2021)

NEW OPTIONS FOR SMART CONTROLS

All Smart Controls

• Clear control when all triggers are null

All except Smart Multi-Lines

Hide control during load (speeds up loading)

Report View List Boxes and Grids

Suppress graphic row/column displays

TECHNOLOGIES LTD.	Smart Control Definition
✓ Use Smart Load logic	
Query Selection	
Select Query Library:	Panel:
Fixed ~ scrnlib.*	✓ ➢ SALESREP_QRY ✓ Define
Trigger Variables and Controls	🦻 Selected Triagers
SALESREP\$	Add Variable SALESREP\$
Controls	
	Add Control
	4 Pamaya
Conditional Trigger Test	2
Options	
Clear control when all Triggers are n	ull Suppress graphic row/column displays
Hide control during load	
Load Logic	
Pre-Load Logic: Ignore v	/
Post-Load Logic: Ignore v	-

EMBEDDED PANELS (2021)

	C PLUS	Embed	lded Panel Pr	ĵ — □ operties	×
Library: so Panel:	crnlib.* EPT_MNT				
Panel Header Pre-Display Post-Display On-Exit	Logic C W At	Order Of Execution /hen the embedded pan fter the embedded cont rior to main panel logic	el is detected rols are drawn		^ >
Position Column:	10.00 🗘 3.50 🗘	Attributes	able		
Controls on Em	bedded Pa	nel		4	>
Button_4 Button_5 Button_6 Button_7 Fonted_Text_0	Button Button Button Button Fonted text	Text {!ToStart_Blue} {!Left_Blue} {!Right_Blue} {!ToEnd_Blue} Department Code:			Y
Notes			<u>O</u> K	<u>C</u> ancel	

EMBEDDED PANEL PROPERTIES

- New Display Embedded Panel in NOMADS button
 - Allows panel being embedded to be viewed/edited
- New **Refresh** button

USER DEFINED CTL VALUES (2021)

USER DEFINED CTL VALUES DIALOG

- Usability enhancements to User Defined CTL Values dialog
- Replaced old inputs and list box with a grid control to simplify input

	/X Plus inologies ltd.	User Defined CTL Values	1 ×
<u>C</u> TL Value:	-1012 ~	Down	
Process:	Perform ~	";move_down"	
4 (F4 -1011 (Up -1012 (Dor) End) Perform wn) Perform	";move_up" ";move_down"	
Add	<u>D</u> elete	<u>o</u> k (Canc <u>el</u>

TL Value	Description	Process		Logic	
4 🔻	7 F4	End	~		
-1011	Up	Perform	~	";move_up"	
-1012	Down	Perform	~	";move_down"	
-	-	Perform	~		

COPY LIBRARY OBJECTS (2021)

COPY SCREEN OBJECTS DIALOG

- <u>Copy Screen Objects</u> dialog accessed from Library Object Selection
 - Ability to specify different Input Libraries (multi-line was previously locked)
 - New Apply button allows consecutive copy operations without exiting

TECHNO	LOGIES LTD.	Copy Screen Objects	
Input Library:	C:\PVX Plus Technologies\PxPlu	ıs\Lib_demo\2024\scrnlib.en	Select Objects
Output <u>L</u> ibrary:	C:\PVX Plus Technologies\PXPlu	Is\LID_demo\2024\scrnlib_copy.en ~	
Pa <u>n</u> el(s):	From	То	Done
	clientold	clientold	
	clientold.1	clientold.1	
	clientold.2	clientold.2	
	clientold.3	clientold.3	
	clientold.4	clientold.4	
Warn on Ove	rwrite	OK	nnly Close

BRIDGING THE PAST AND THE FUTURE

FOLDER ADVANCE OPTIONS (2021)

NEW OPTIONS

- 2 new Auto Advance options for Folder <u>Properties</u> tabbing behavior
 - Advance to next folder tab loop
 - Advance to first control on next folder tab loop

	X PLUS		Т	abs/Fol	der Prope	rties		❶ – □ X
	Name: Folder			Ρ	review		_	
				1	tab1			
<u>T</u> abs	Tabs Definition	n						
<u>F</u> ont/Color	Name	Title Format	Title (Value/Expr/Msgkey)	Msg Args	Suppress if not found	Bitmap	Fill Pattern	🖷 Insert
<u>D</u> isplay	tab1	▼ Fixed	tab1				Full	
	tab2	Fixed	tab1				Full	11号 Up
	tab3	Fixed	tab1				Full	J를 Down
		Fixed					Full	
								<u> </u>
	<						>	
	C Tabless Fr	alder		le	Auto Ad	vance.	>	
	Tabless Fe	older	Preserve Contro	ls	Auto Ad	vance: e to next folder t	> ab loop	
	< Tabless For Security	older	Preserve Contro	ls	Auto Ad Advanc Default Off (Adv	vance: e to next folder t vance to main pa	> ab loop anel)	
	< Tabless For Security	older	Preserve Contro	ls	Auto Ad Advanc Default Advanc Advanc	vance: re to next folder t vance to main pa re to next folder t re to first control	ab loop anel) ab on next folder	
	< Tabless For Security	older <u> N</u> otes	Preserve Contro	ls	Auto Ad Advanc Default Off (Adv Advanc Advanc Advanc	vance: e to next folder t vance to main pa se to next folder to to first control to to next folder to	> ab loop anel) ab on next folder ab loop	

TAB ORDER DEFINITION (2023)

TAB ORDER DEFINITION

Control Type column added to the <u>Tab Order Definition</u> dialog to help identify controls

9	Tab Order Definition						
Tab Sto	op Control Name	Control Type	Location	Text/Value	^		
~	PRODUCTCODE	Multi-line	@(19.1)		11		
~	BUTTON_FIRST	Button	@(38,0.75)	{!Tostart}	Ŷ.		
~	BUTTON_PRIOR	Button	@(41,0.75)	{!Left}			
~	BUTTON_NEXT	Button	@(44,0.75)	{!Right}			
~	BUTTON_LAST	Button	@(47,0.75)	{!ToEnd}			
~	DESCRIPTION	Multi-line	@(19,4)				
~	PRICE	Multi-line	@(19,5.75)	#,##0.00			
~	QTYONHAND	Multi-line	@(19,7.5)	###.##0			
~	STANDARDCOST	Multi-line	@(19,9.25)	#,##0.00			
 Image: A start of the start of	BUTTON_WRITE	Button	@(85,27)	=MSG("&WRITE")			
 Image: A start of the start of	BUTTON_DEL	Button	@(96,27)	=MSG("&DELETE")			
~	BUTTON_CLEAR	Button	@(107,27)	=MSG("&CLEAR")			
~	BUTTON CANCEL	Button	@(118.27)	=MSG("F&XIT")	¥		
i	Double click to select/de-sel Drag/drop or use up/down b	ect Tab Stop. uttons to move contro	ls.				
				<u>o</u> ĸ	<u>C</u> ancel		

LIBRARY OBJECT SELECTION SORT (2023)

NEW LIBRARY DEFAULTS SETTING

• Save Sort Settings for the Library on Exit check box

	A − □ Y	Ob	oject <u>s</u> O <u>p</u> tions <u>L</u> ibi	rary <u>U</u>	tilities <u>V</u> iews Projects <u>D</u> esigner <u>i</u> Nomads <u>W</u> e	abster+ De <u>t</u> ails <u>O</u> uit		
	INDLOGIES LTD.	C.	PVX PL TECHNOLOGIE	US	Library Object Selection Library: C:\PVX PI	us Technologies\PxPlu	() s\Lib_demo\2024\scrnl	— □ X lib.en
	Library: C:\PVX PLUS TECHNOLOGIES\PXPLUS\LIB_DEMO\2024\SCRNLIB.EI Description:	P	anel Query Menu	File Maint	Image: Copy Copy Delete Test Print Defaults	Groups Customize Com	pare Bulk Edit Merge	🐼 Export
<u>S</u> etup	Library Information	0	bject Name	Туре	Title	Revised Date	Ву	^
	Message Lib:	E	Dept_Mnt	(D)	Department File Maintenance	2024/06/26 15:20	Susan	
<u>D</u> isplay	Pierekeer	8] Titlebarcat	(D)	Titlebar Header	2024/06/25 08:23	Len	
Fort/Color		8	Mainmenu	(D)	Main Menu	2024/06/25 08:21	Len	
	Prefix:	8	susan	(D)	susan	2024/06/24 16:55	Susan	
User Aid	User Tag Field: Fixed V	8	products	(Dh)	Product File Maintenance	2024/06/21 14:20	Susan (File Maint.)	
			Leftbar	(W)	Leftbar	2024/06/21 09:58	Len	
TitleBar	Library Object Selection Display	88	Salesrep_Qry	(Q)	Sales Rep Query	2024/06/20 12:46	Susan	
	Save Sort Settings for this Library on Evit		products2	(D)	Product File Maintenance	2024/06/20 10:09	Susan (File Maint.)	
			Prod2019	(D)	File Maintenance for Product File	2024/06/20 09:36	Susan	
			prodold	(D)	Product File Maintenance	2024/06/20 09:29	Susan (File Maint.)	
			clientold	(D)	Client Master File Maintenance	2024/06/20 09:04	Susan (File Maint.)	
			clientold.1	(D)	Client Master File Maintenance (Tab 1: General)	2024/06/20 09:04	Susan (File Maint.)	
			clientold.2	(D)	Client Master File Maintenance (Tab 2: Contact)	2024/06/20 09:04	Susan (File Maint.)	
			clientold.3	(D)	Client Master File Maintenance (Tab 3: Accounting)	2024/06/20 09:04	Susan (File Maint.)	
			clientold.4	(D)	Client Master File Maintenance (Tab 4: Invoices)	2024/06/20 09:04	Susan (File Maint.)	
		1R	Client_Mnt.3	(W)	File Maint for Client Master File (Panel 3)	2024/06/19 16:45	Susan	
			Client_Mnt.2	(W)	File Maint for Client Master File (Panel 2)	2018/04/12 10:44	Jane	
	OK Cancel		Newbrowser	(D)	Web Browser comparision	2018/03/27 11:36	Mike King	
] Titlebardog	(D)	Dogs Titlebar	2018/03/20 15:51	Our Laptop	× .

- Allows objects to initially appear sorted as they were when Library Object Selection was last exited (rather than by Object Name)
 - Newest changes at the top for example

NOMADS WIKI HELP (2023)

PXPLUS WIKI APPLICATION DOCUMENTATION SYSTEM

• Web-based documentation system

NOMADS WIKI HELP

- The Wiki Help option in NOMADS generates Help documentation directly from a panel and displays it using the PxPlus Wiki
- A Webserver is required and the new NOMADS WikiURL\$ property must be set

%NOMADS'WikiURL\$="localhost:8086"

DEFINING WIKI HELP

PANEL HEADER, USER AIDS TAB

- Change the Help Reference Type to Wiki
 - Wiki Page will default to the Panel Name (but can be changed)

	X PLUS IGLOGIES LTD. Panel Definition	③ − □ ×
	Panel: Dept_Mnt Last update: 2024/07/03 12:19 Len	
<u>D</u> isplay	Dynamic (from Data Class)	
<u>Font/Color</u>	Help Reference Type: Wiki V Fixed V	
<u>A</u> ttributes	Wiki Page: Department_Maintenance	Test
<u>L</u> ogic	L	
<u>U</u> ser Aids	Message Bar	
<u>i</u> Nomads Settings	Fixed ~	

 When panel is processed, invoke Help as usual by pressing the F1 key or by clicking the Help button (if applicable)

Canadian Automotive Toy Store Department Maintenance	×
Department Code: 🛛 🔍 🖬 4 🕨 🕅	
Department Name:	_
<u>W</u> rite <u>D</u> elete <u>C</u> lear E <u>x</u> it	

	incluince in		
- → C ⋒	 localhost:8086 	i/services/pxpwiki.pxp?page=Depa 🍳 🛧 🔵 🤇	
PVX Plus Technologi	Ġ Google 🛛 🍎 CB	C News - Latest 🛛 Yahoo - login	>>
💃 PxPlus Wiki	i	<u>Home</u> Print Config	<u>Edit</u>
Department Ma	intenance		
Jepartment Ma	intendice		
File Maintenance Panel	for the Department	file	
File Maintenance Panel	for the Department	file	
File Maintenance Panel Field	For the Department	file Details Enter the Department Code (up to four characters loop)	
File Maintenance Panel Field Department Code Department Name	For the Department	file Details Enter the Department Code (up to four characters long) Forer the Department Name	
File Maintenance Panel Field Department Code Department Name Write	for the Department Format length=4 length=40 button	file	
File Maintenance Panel Field Department Code Department Name Write Delete	For the Department Format length=4 length=40 button button	file	
File Maintenance Panel Field Department Code Department Name Write Delete Clear	For the Department Format length=4 length=40 button button button	file	
File Maintenance Panel Field Department Code Department Name Write Delete Clear Exit	Format Format length=4 length=40 button button button button	file	
File Maintenance Panel Field Department Code Department Name Write Delate Clear Exit BUTTON_4	For the Department Format length=4 length=40 button	file	
File Maintenance Panel Field Department Code Department Name Write Delete Clear Exit BUTTON_4 BUTTON_5	Format Format length=4 length=40 button button button button button	file	
File Maintenance Panel Field Department Code Department Name Write Delete Clear Exit BUTTON_4 BUTTON_5 BUTTON_6	For the Department Format length=4 button button button button button button button button	file	
File Maintenance Panel Field Department Code Department Name Write Delete Clear Exit BUTTON_4 BUTTON_4 BUTTON_6 BUTTON_6 SUTTON_7	Format Format Instructure Format Instructure Instructu	file	

NOMADS WIKI HELP NOTES

NOTE INPUTS

- NOMADS Wiki uses **Notes** (when available) for panel and control details
- Notes options were therefore added to all NOMADS controls and Data Classes

P) TEC	VX PLUS 0 - C X CHNOLOGIES LTD. Multi Line Properties Name: PRODUCTCODE Class: AB	PEX PLUS Data Class Definitions Class Name: DEPARTMENT Class Name: DEPARTMENT Control Type: Multi line	
Display	Dynamic Class	Dgscription: Fixed V Department *Dynamic Internal Data Type: String Internal Size: 4	- C X
Eont/Color	Fixed ~ Input Format	Display Properties Attributes Multi-Line Width:	
<u>Attributes</u>	Fixed 12 Fixed Empty Value: Fixed Implied Decimal Point Default >	User Aids Validation Validation	
<u>U</u> ser Aids <u>V</u> alidation	Position Size Attributes Column: 19.00 🗘 Width: 17.00 🎝 Image: Tab Stop initially Disabled	Query Fixed Implied "Empty Value: Implied Decimal Point Default Implied Decimal Point Default Separator.	
<u>Q</u> uery	Line: 1.00 C Height 1.00 C Initially Hidden	•Visual Class •iNomads Class Expression Expression Image: Specific Stress Stre	Qk <u>Cancel</u>
	Security Groups Popup Menu QK Cancel	Popup Menu Write Delete Clear Exit	

NOMADS WIKI INFO (2023)

WIKI INFO MENU

• Wiki Info added to panel Designer top Menu



• Spawns EZWeb for the **PxPlus Wiki** using port 47587 (if not already running) and then displays panel information for the current NOMADS panel in a new tab on your default Web browser.

WIKI INFO EXAMPLE

EXAMPLE

- Information from NOMADS library file
- Information geared toward developers rather than end users

88	Canadian . Toy Store	Autom	otive		D	epa	rtme	ent	Maintenance	١	×
Depa	rtment Code:		0	[◀	٩		ÞI				
De	epartment Nan	ne:									
			<u>W</u> rite			<u>D</u> e	lete		<u>C</u> lear	E <u>x</u> it	

🔮 PxPlus	Wiki			Home Print Config Edit
Nomads Pa	anel Lib	orary: C:\PV	X Plus Techr	nologies\PxPlus\lib_demo\2024\scrnlib.en
<u>Show Library</u> Panel name: [Dept Mnt			
Header Informa	ntion			
Title: Departme Type: Dialog Position: Column 6, Size: Width 65, Notes: File Maint	nt Maintenar Line 11 Height 8 enance Pane	nce I for the Department i	file	
Control	Туре	Position	Size	Description
BUTTON_4	Button	Column 28, Line 0.75	Width 3, Height 1.5	Contents: {IToStart_Blue} On Press:: Perform:"*win/filmaint;First_rec" Tip: =MSG("PRESS_1ST") Visual Class: BITMAPBUTTON
BUTTON_5	Button	Column 31, Line 0.75	Width 3, Height 1.5	Contents: {!Left_Blue} On Press:: Perform:"*win/fimaint;Prior_rec" Tip: =MSG("PRESS_PRE") Visual Class: BITMAPBUTTON
BUTTON_6	Button	Column 34, Line 0.75	Width 3, Height 1.5	Contents: {!Right_Blue} On Press:: Perform:"*win/flmaint;Next_rec" Tip: = MSG("PRESS_NEXT") Visual Class: BITMAPBUTTON
BUTTON_7	Button	Column 37, Line 0.75	Width 3, Height 1.5	Contents: {!ToEnd_Blue} On Press:: Perform:"*win/fimaint;Last_rec" Tip: =MSG("PRESS_LAST") Visual Class: BITMAPBUTTON
Fonted_text_0	Fonted Text	Column 3, Line 1	Width 14, Height 1	Contents: Department Code:
DEPARTMENTCODE	Multi Line	Column 18, Line 1	Width 8, Height 1	Max length: 4 Post Display: Execute:_KEYDEF\$="DepartmentCode\$",_NUMDEF\$="",_REQD\$="DepartmentName\$,",_REQD_PNL\$="0" On Focus: Perform:"*win/flmaint;Check_changes" On Change:: Perform:"*win/flmaint;Find_rec" Query panel: Dept_qry in scrnlib.en

SYSTEM DEFAULTS (2024)

	LUS		Systen	① — □ X n Defaults	
Panel Library Informa	tion				
Language Suffix:	EN	(Libr	ary Suffix -e.g.	*.en)	
Alternate Suffixes:		(Con	nma-separated	- e.g. en,fr,es)	
Toolkit Theme:					
Visual Effects					
Display: 4D Effec	t v	/			
Panel Setup Defaults	i				
Column: 0	<u>W</u> idth:		80 🗘		
Line: 0	<u>H</u> eight:		24 💭	Suppress . <u>V</u> AL	
Grid Definition Defau	ts	P	athnames	Pathname Case	
🔿 <u>N</u> o Grid 🛛 🍥	<u>Q</u> uarter		Simple	Asis	
O Eull Line O	Fifth		Relative	O Lower	
⊖ H <u>a</u> lf			Absolute	O Upper	
				<u>O</u> K <u>C</u> ancel	

SYSTEM DEFAULT SETTINGS

- New Toolkit Theme setting
 - *None
 - *Dark
 - *Light
 - Saved by project
- Visual Effects Display now defaults to **4D**

See 'Application Look and Feel' PDF for more details

GRID PRESETS (2024)

GRID PRESETS DIALOG

- 6 New Properties added to Grid Presets to support 'look and feel' changes
 - CurrentCellTextColor\$
 - ForegroundButtonColor\$
 - LockBackColor\$
 - LockTextColor\$
 - RowHeaderBackColor\$
 - RowHeaderTextColor\$

	HNOLOGIES LTD.		Grid Properties	1 - 🗆 🤇
	Name: GRID_1 Class:		Preview	Not to scale)
<u>D</u> isplay	Property List: Show All 🗸 🥬			
Font/Color	Property Co	olumn (Number/Name)	Row Exp Value/Expression	Insert Above
	CurrentCellTextColor		0 Light Yellow	Disert Below
Attributes	♦ ForegroundButtonColor ▼ 0		0 Dark Yellow	The Delow
Logic	🚸 LockBackColor 🛛 🗢		Dark Gray	Duplicate Row
	🚸 LockTextColor 🛛 🔻		Black	Delete Row(s)
<u>U</u> ser Aids			0 Colour19	18 Move Up
D .	RowHeaderTextColor 🔻 0		0 RGB:200 50 250	
resets	*			US Move Down
<u>C</u> ell Logic				
				Apply Column
Query	. ♦			Names
	. ◄			✓ Format
	Security Groups	Popup Menu	<u>N</u> otes	OK Cancel

MENU BAR/POPUP MENU (2024)

MENU DEFINITIONS

- Enhancements for defining <u>Menu Colors</u> using <u>Menu Bar Definition</u> dialogs
- Menu Colors button
 - Added Text color and Visual Class
 - New Apply Menu Color to Top Menu drop box not available for Popup Menus

Quit		
PVX PLUS TECHNOLOGIES LTD.	Menu Bar Definition for panel	() — □ ×
Save Delete Menu	te Cut Copy Paste Move Up Down	Suppress Help Menu Colors
Groups	it Menu Group or Item op Level>	
CTOP Level> CTOP Level> Group £1 CTOP £2 CTOP £3	Item Group &1 Group &2 Group &3 <end items="" of=""></end>	Type Group Group Group





MENU ITEM COLORS

	X PLUS	Menu Item/Group Definition	0	×
Details Attributes	<mark>Bitmaps (Preview</mark> <u>N</u> ormal: Fixed ∽	r may not be to scale)		
	C <u>h</u> ecked: Fixed ∽			
	Item Colors			
	васкground: Text:	Specify Color Ugnt reliow Point Menu Default V System Default Specify Color		

MENU ITEMS

- Individual Menu Items can also be assigned colors if desired
 - Added Text Item Color

🔮 menu							×
Monday	Tuesday	Wednesday	T <u>h</u> urdsay	Friday	Saturday	S <u>u</u> nday	
	am noon pm						Exit

BRIDGING THE PAST AND THE FUTURE

SPINNER BUTTON (2024)

BUTTON PROPERTIES

- Added **Spinner Button** Attribute for Button controls
- Re-configured Attributes
 - Created Special Button Style drop box
 - Only 1 should apply



	INOLOGIES LTD.
	Name: BUTTON_1 Preview (Not to scale) Class:
Display Font/Color Attributes Logic User Aid	Attributes Tab Stop Hyperlink (Web Page Style Link) Auto Tab Skip Flat Button Initially Disabled Flat - No Border Initially Hidden Transparent Adjacent Underscore Text Default Push Button Dynamic text Signal Only (No Focus) Drop-List Button Hover Cursor: V
	Security Groups Popup Menu Notes QK Cancel

DO NOT EXTEND TAB WIDTH (2024)

FOLDER PROPERTIES / DISPLAY TAB

• New **Do Not Extend Tab Width When Active** check box added for Sidebar folders

Са То	nadian Automotive y Store
	Client ID: 000000]
General	Name:
Contact	Address:
Contact	Address:
Accounting	City:
	Zip code/Postal Code:
	State / Province:
	Country:

	anad oy St	ian Automotive ore	
	с	lient ID: 000000 🔍	
General		Name:	
Contact		Address:	
Contact		Address:	
Accounting		City:	
		Zip code/Postal Code:	
		State / Province:	[_]
		Country:	[]
	-		

DYNAMIC BUTTON TEXT (2024)

BUTTON ATTRIBUTES

- New Dynamic Text attribute for <u>Button Controls</u>
 - Control text via control string variable name (such as BUTTON_1\$)

Original Button Text	

BUTTON_1\$="NEW BUTTON TEXT"

NEW BUTTON TEXT

refresh_flg or Auto Refresh Header attribute required

BRIDGING THE PAST AND THE FUTURE



UTILITIES



MAINTAIN NOMADS ENVIRONMENT (2020)

<u>P</u> rojects	<u>M</u> enu	<u>U</u> pdate	<u>A</u> bout	<u>S</u> upport	<u>O</u> nline Help	<u>R</u> elea	ase Notes		
G	PV TECH	X PL	US		PxP	lus 2	024 IDE	— [×
<u>Proj</u>	<u>ect</u>	Default				~	· 朂		
	<u>M</u> enu	1	Ð	<u>H</u> isto	гу		<u>P</u> roject		
	Plus IDE Progran Ed+ System Graphic Crea Ope Ope Pane Pane Pane Pane Pane Pane Pane Pan	n Editor (Utilities al Applica n Applica n Project el Definiti y Definiti u Bar Def Maintena em Defa maintena em Defa tain NON p ies anageme	IT) ation Bu ation Lib Applica on inition nce Gen Its IADS E	uilder (NO brary rary tion Libra nerator	MADS) ry			<	e.

NEW <u>MAINTAIN NOMADS ENVIRONMENT</u> UTILITY

- Accessed from task on IDE Menu or the NOMADS Session Manager
- Central location to display and maintain %NOMADS properties used by the %NOMADS object (*obj/nomads.pvc) to control the NOMADS environment
- Alternative to setting them in the start_up program
- Values are set on instantiation of the global %NOMADS object if the settings file exists in the current directory

MAINTAIN NOMADS ENVIRONMENT

- Properties displayed in a grid
- Descriptions for selected individual properties are shown below

DEFINITION FILE

- Values to be set are read from a Definition File
 - *win/nomads_properties.txt

SETTINGS FILE

- Values saved in a text Settings File
 - nomads_prop_save.txt

Definition File:	*win/nomads_properties.txt				Load Propertie
Settings File:	C:\PVX Plus Technologies\PxPlus\no	omads_prop_	save.tx	t	Сору <u>Т</u> о
Category	Property	Set	Exp	Value/Expression	
Charts	Chart\$			google	~
Charts	Chart_Colors\$				
Charts	DeveloperCharts				
Charts	PublicAutoChart				
Controls	Mln_Sep\$				
Customizer	Custom_Define				
Customizer	Custom_Dir\$				
Customizer	Custom_Exclude_Program\$				
Customizer	Custom_Genmtc				
Customizer	Custom_GenWdw				
Customizer	Custom_Skip_Definition				
Customizer	Custom_Wdw				
				-	
Property Descrip	otion: %NOMADS'Chart\$			No	mads Properties He
Select the chart bra environment and "r	ind to use in a NOMADS environment. V blus" charts are used in iNomads.	Vhen not set, t	the inte	rnal native charts are used in	the NOMADS

NOMADS ENVIRONMENT BUTTONS

Settings File:	C:\PVX Plus Technologies\PxPlus\no	omads_prop_	save.tx	t	Сору <u>Т</u> о
Category	Property	Set	Exp	Value/Expression	
harts	Chart\$			google	~
harts	Chart_Colors\$				
harts	DeveloperCharts				
harts	PublicAutoChart				
ontrols	Mln_Sep\$				
ustomizer	Custom_Define				
ustomizer	Custom_Dir\$				E
ustomizer	Custom_Exclude_Program\$				E
ustomizer	Custom_Genmtc				
ustomizer	Custom_GenWdw				
ustomizer	Custom_Skip_Definition				
ustomizer	Custom_Wdw				
roperty Descri elect the chart br nvironment and '	ption: %NOMADS'Chart\$ and to use in a NOMADS environment. V plus" charts are used in iNomads.	Vhen not set, t	he inte	<u>N</u> nal native charts are used i	omads Properties

LOAD PROPERTIES BUTTON

 Populates the grid with current values for the %NOMADS properties

DISPLAY SETTINGS BUTTON

 Shows contents of the Settings File as of last save

OK & APPLY BUTTONS

 Save the values to be set in the Settings text file

PROPERTY MAINTENANCE UTILITY

PROPERTY MAINTENANCE UTILITY

- Basic architecture can be used to maintain properties for any object
 - <u>Property Maintenance Utility</u> (*win/propset)

CALL "*win/propset;maint",def_file\$,settings_file\$

WHERE	EXPLANATION
def_file\$	Pathname of the developer-defined Object Definition File that contains the properties definitions
settings_file\$	Pathname of the user-defined Settings File that contains the properties and their values to be set

USER RESERVED WORDS (2020)

NEW <u>RESERVED WORDS MAINTENANCE</u> UTILITY

• Maintain a list of "reserved" words that cannot be used for Data Dictionary tables and element names or NOMADS control names or both

NOMADS Control

Reserved Wo	ord	×
?	This control name is on the list of Reserved Words for NOMADS Controls.	
	OK No Always OK	

Data Dictionary Element



TWO LISTS OF WORDS

PXPLUS SUPPLIED WORDS

- Predefined list which cannot be edited
 - Words restricted from Data Dictionary or NOMADS controls or both

TECHNOLOGIES LTD.	User Reserved W	/ords Mainte	nance
Reserved Words to Display: PxPlus Supplied Wo	ords 🗸 🦻		
PxPlus Supplied Words may not be edited Words will allow the default restrictions to b	I. However, adding the be over-ridden (except	same word to th in the case of FN	e list of User-Defined *).
Reserved Word	Data Dictionary	NOMADS Controls	Delete Word(s)
ABSOLUTE	☑		
ADD	⊻.		
ALL	⊻.		
ALLOCATE	¥.		
ALTER	ĭ.		
ALTERNATE_PANEL		Z	
ALTERNATE_PANEL_TYPE		1	
AND	⊻		~
		_	
Search Dictionary		<u>O</u> K	Cancel Apply

USER DEFINED WORDS

- New words may be restricted from use in the Data Dictionary or as NOMADS controls (or both)
- Entering a PxPlus Supplied word as a User-Defined word will override default behavior

TECHNOLOGIES LTD.	Us	ser Reserved W	/ords Mainter	nance		
Reserved Words to Display:	User-Defined Words C:\PVX Plus Technologi	_ 🧭 ies∖PxPlus∖pxplus.w	/ds			
PxPlus Supplied V Words will allow th	Vords may not be edited. H e default restrictions to be c	owever, adding the ver-ridden (except	same word to the in the case of FN	e list of I*).	User-Det	ined
Reserved Word		Data Dictionary	NOMADS	^	Dele	te Word(
		ŕ	Controls	111	Dele	te moral
CUSTOM		 ⊻	Controls	Ľ	Dele	
CUSTOM EXAMPLE			Controls		Dele	
CUSTOM EXAMPLE ID			Controls C C C C C C C C C		Dele	
CUSTOM EXAMPLE ID NAME			Controls Controls		Dele	
CUSTOM EXAMPLE ID NAME PROPERTY			Controls 2 2 2 2 2 2 2 2 2 2 2 2 2			
CUSTOM EXAMPLE ID NAME PROPERTY READ			Controls	-		
CUSTOM EXAMPLE ID NAME PROPERTY READ TEST			Controls		Dele	

BRIDGING THE PAST AND THE FUTURE

SEARCH DICTIONARY

SEARCH DICTIONARY BUTTON

 Dialog will show instances where a reserved word is currently used in the Data Dictionary

TECHNOLOGIES LTD.	Search Data Dictionary for Reserved Words				
Search for Reserved Words					
Table Name	#	Element Name	Reserved Word	User	^
{Global Dictionary}	3	date	DATE		
{Global Dictionary}	10	NAME	NAME	I	
{Global Dictionary}	1	key	KEY		
{Global Dictionary}	1	key	KEY		
{Global Dictionary}	1	key	KEY		
{Global Dictionary}	2	desc	DESC		
{Global Dictionary}	3	numeric	NUMERIC		
					×
Data Dictionary contains reserved wo	rds.		Search	<u>E</u> xit	

SYSTEM ANALYSIS (2022)

TECHNOLOGIES LTD.	System Analysis	() — —)
Click on a section to expand it and	view the results.	
PxPlus Install Test		+
PxPlus Environment Variables		+
Internet Test		+
SSL Test		+
External DB Test		•
PDF Test		+
No issues found	Possible issues found	Issues found
Execute Save		Close

NEW SYSTEM ANALYSIS UTILITY

• Analyses the PxPlus installation and setup

Test	Description
PxPlus Install Test	Create and delete a file in the install directory. Create and delete a file in the <i>Lib</i> directory and all <i>Lib</i> sub-directories.
WindX Test	Display client and server PxPlus versions and the WindX program version. Ensure client PxPlus version equals the server PxPlus version. Validate % PXPLUS_HOST\$ is set correctly and that spawning works
PxPlus Environment Variables	Display all of the PxPlus environment variables.
Internet Test	Test that PxPlus can connect to the Internet at <u>www.pvxplus.com</u> .

SYSTEM ANALYSIS CONTINUED

Test	Description
SSL Test	Test that PxPlus can connect securely via SSL to www.pvxplus.com . Display OpenSSL version.
External DB Test	Test that ADO is supported. Test that ODB is supported. On UNIX, test that UNIX ODBC is setup. Test that DB2 is supported and the DB2 client is setup. Test that OCI is supported and the Oracle instant client is installed. Test that MySQL client library is installed.
PDF Test	Check that LibHaru is supported and enabled. Open a PDF file.

RUNNING THE GRAPHICAL ANALYSIS

	PVX F	PLUS	System Analysis	● - □ ×
			Press Execute and the results will display here.	
Exec	cute	Save		<u>C</u> lose

PVX PLUS TECHNOLOGIES LTD.	System Analysis	1 - □
Click on a section to expand it and v	iew the results.	
PxPlus Install Test		+
PxPlus Environment Variables		+
Internet Test		+
SSL Test		÷
External DB Test		•
PDF Test		+
No issues found	Possible issues found	Issues found
Execute Save		Close

ANALYSIS RESULTS

Color-coded

Х

• More info available with + button

External DB Test –
ADO is supported.
ODBC is supported.
DB2 is supported.
DB2 is correctly setup.
Oracle is supported.
Oracle is not setup.
Fix Suggestion: Oracle client must be installed and the Oracle client library must be in the path.
[OCI] Connect to Oracle Server
MySQL is correctly setup.

CALL "*tools/systemanalysis", results\$, htmlOutput

WHERE	EXPLANATION
result\$	Output string where the test results are returned
htmlOutput	If set, the output will be HTML. If not set or set to 0, the output is plain text

LAUNCH EZWEB SERVER (2022)

PVX PLUS TECHNOLOGIES LTD. Launch EZWeb Server
Port Number: 5566
Secure (HTTPS)
SSL Certificate: C:\webster8088\data\sslcert.pem 🖻
Certificate Key: 🖻
PFX Password:
Launch EZWeb on port: 5566 Save Exit



SECURITY OPTIONS ADDED

- Secure (HTTPS) check box
 - SSL Certificate
 - Certificate Key
 - PFX Password

PxPI	us-2024: Ezv	web Serve	r (8088)		
*	PxPlus-2024: Ezweb Server (5566;secure)				
					
		-			•

SYSTEM TRAY

• System Tray messages updated when secure

See 'Security' PDF for more details

LIBRARY BULK EDIT AND SEARCH (2023)

UPDATED LIBRARY BULK EDIT

- Search capabilities added to existing Library Bulk Edit Utility
- Search Library button is available when Type is set to Library

PVX PLUS Library E				y Bulk	ⓓ — □ X Bulk Edit and Search			
Туре:	Library	C:VPVX Plus Technolog Include Sub-Director	ies\PxPlus\Lib_ ries	demo\2(124\scmlib.en		<u>S</u> earch Libra	iy
Control Type: Filter:	All Controls	Case-Sensitive	Is Not	Ein	d Controls			
Selected Contr	ols				Properties to Edit			
					Property © Co	Value ordinates		^
					Height	As is		
					Width	As is		
						Display		
					Background image path	As is		
					Background image position	As is		~
					Center Text Vertically	As is		~
					Display Effect	As is		~
					Empty Value	As is		
					Frame Type	As is		
					Implied Decimal	As is		▼ ↓
Collapse	<u>R</u> eset	Selec <u>t</u> All					Clear Pro	perties
Panel ch	anges cannot be re	versed. Ensure a proper back	up exists.		<u>O</u> k <u>A</u> pply	<u>C</u> lea	ar <u>E</u>	xit

Filter						_
	pression	Regular Expression	Case-Sensitive	Is Not		
	pression			Casad	Customia	
				Search	Customiz	je
Kov		obi pmo\$	obi typo\$	init val®		
IXCy	0000		_obj_types			1
2019	0000	2019	D			
2019	0139	BUTTON_FIRST	В			
2019	0142	BUTTON_PRIOR	В			
2019	0145	BUTTON_NEXT	В			
2019	0148	BUTTON_LAST	В			
2019	0203	PROMPT_PRODUCT	F			
2019	0220	PRODUCTCODE	М			
2019	0302	BOXES_1	x			
2019	0503	PROMPT_DESCRIPTI	. F			
2019	0520	DESCRIPTION	М			

Initially 4 columns are displayed (Key, _obj_nme\$, _obj_type\$ and _init_val\$)

CUSTOMIZE SEARCH (2024)

LIBRARY BULK EDIT AND SEARCH

- Customize button allows more columns
- Select from all available columns in the library file

File.	C:\PVX PIL	is rechnologies/PxPlus/Lib/_den	no\2024\scmiib.en		
Filter Ex	pression	Regular Expression	Case-Sensitive	Is Not	Customi <u>z</u> e
Key		_obj_nme\$	_obj_type\$	init_val\$	^
(0000				
2019	0000	2019	D		
2019	0139	BUTTON_FIRST	В		
2019	0142	BUTTON_PRIOR	В		
2019	0145	BUTTON_NEXT	В		
2019	0148	BUTTON_LAST	В		
2019	0203	PROMPT_PRODUCT	F		
2019	0220	PRODUCTCODE	Μ		
2019	0302	BOXES_1	x		
2019	0503	PROMPT_DESCRIPTI	F		
2019	0520	DESCRIPTION	М		~



🕒 Library Bulk Edit an	d Search - Search										
File: C	\PVX Plus Technologies\	PxPlus\Lib_demo\2024	\scmlib.en								
Filter											
Expression Regular Expression Case-Senative la Not											
										Search_	Customize
Key	_obj_nme\$	_obj_c	_obj_l	_obj_w	_obj_h	_obj_type\$	init_text\$	init_val\$	_obj_tab	_obj_def	5 ^
0000		0	0	0	0		·		0		
CATS_TITLE 0000		15	4	35	10	D	Cats_title		0	1	
CATS_TITLE 0901	PX_TITLEBAR_MAX	0	8.5	3	1.5	В	{!Title_Max}		0	0	
CHART_SLS 0000		0	0	80	24	D	Sales Figures		0	1	
CHART_SLS 0102	CHART	1	0.2	78	21.2	н			0		
CHART_SLS 2302	FONTED_TEXT_1	1	22.25	12	1	F	Chart Types:		0		
CHART_SLS 2314	CHART_TYPE	13	22.25	18	15	D	2DAREAI2DBARI2D	2DCOLUMN	1000		
CHART_SLS 2336	WRITE_UPDATE	35	22	11	1.5	В	&Write Update		1000	0	
CHART_SLS 2348	PROPERTY_UPDATE	47	22	11	1.5	В	&Property Update		1000		
CHART_SLS 2369	EXIT	68	22	11	1.5	В	E&xit		1000	0	
CLIENTOLD 0000	CLIENTOLD	5	5	112	21	D	Client Master File Mai		0	1	~
٢											>
886 records found										<u>D</u> etails	Exit

FILE UPDATE/VIEW UTILITIES

UPDATED FILE UTILITIES

- Similar search capabilities added to the File Update and File View Utilities
- File Update
 - Accessed from System Utilities or IDE task under Data Management
- File View
 - Accessed from System Utilities or Data toolbar button in Data Dictionary Maintenance

	TROLOGIES LTD. File Vi	iew Utility	1
ile: C:\P	/X Plus Technologies\PxPlus\lib_demo\2024\data\client		2
Key: Prima	ry Key: Client ID	✓ File Info	
["ClientldKe	/":1:1:6]	Туре:	Keyed
		Record Size:	640
Enter starting k	ey (size=6):	Primary Key Size:	6
016057 IA A D	(Index=51202)	Current # of records:	200
Field	Value		Length 🔺
Clientid\$	016057		6
Clientname\$	Hemphill Theatre		16
Address1\$	9489 Cozy Shadow Close		22
Address2\$	Apt 1		5
City\$	Etang-du-nord		13
State\$	QC		2
Country\$	Canada		6
Zincodes	G0M 1Q6		7 .

4	File View	Utility - Customize Search	>
F	file: C:\F	VX Plus Technologies\PxPlus\lib_demo\2024\data\client	
	Select	/ Deselect All	
	Select	IOList Variables	^
		Clientid\$	
	⊻	Clientname\$	
		Address1\$	
		Address2\$	
	⊻	City\$	
		StateS	
	⊡ I	Country\$	
		Zipcode\$	
	V	Phonenumber\$	
		Phoneextension\$	
		Website\$	
	⊡	Webpwd\$	
	Z	Email\$	~
-		01	
		<u>O</u> K E <u>x</u> it	

File: C:\PV> Filter	X Plus Technologies \PxPlus \ib\	_demo\2024\v	data\client								
Filter	ular Evenencian 🔲 Care S										
Expression Regu	ular Exampleion Case S										
r	ulai Dipression 🗌 Case-5	enstive [ls Not								
										Search	Customiz
Key Cl	lientid\$ Clientna	ame\$	Address1\$	Address2\$	City\$	State\$	CountryS	Zipcode\$	PhonenumberS	Phonee	xtensionS
016057 014	16057 Hemphill	Theatre	9489 Cozy Shadow Cl	Apt 1	Etang-du-nord	QC	Canada	GOM 1Q6	(581) 555-6421		
022632 023	22632 Irion Wine	ary	4490 Middle Plaza	Suite 98	Southland Hills	ON	Canada	LOR 2L6	(807) 555-6746		
024363 024	24363 Falls The	atre	889 Noble Spring Road		Cuog	QC	Canada	J3W 8D6	(514) 555-5442		
032475 033	32475 Brewster	Lighting	5998 Dusty Circle		Methlakahtla	BC	Canada	V1M 6Z2	(778) 555-3834		
033994 033	33994 Jackson	Formal Rentals	5201 Lost Jetty		Langruth	MB	Canada	R8P 2M1	(204) 555-6908		
034538 034	34538 Grayson I	Vursery	1737 Hazy Stead		Reading	NS	Canada	B2K 7W7	(902) 555-5325		
038024 034	38024 Burleson	Construction	5574 Bright Green	Suite 88	Elsanor	MB	Canada	R7G 6H7	(204) 555-4666		
038588 034	38588 Clay Med	ical Center	7158 Lazy Crescent		Westoe	SK	Canada	S8R 100	(306) 555-7600		
039816 039	9816 Williamso	n Roofing	4515 Golden Place		Pipestone	MB	Canada	R5P 1F4	(204) 555-1064		
041264 04	1264 Lipscomb	Securities	40 Iron Fawn Turnabout	P.O. Box 77	Scotts Level	ON	Canada	N00 3C5	(807) 555-4397		
047847 04	7847 Kimble W	edding Servi	7309 Dusty Sky Towers		Sombra	ON	Canada	L5J 108	(289) 555-8556		
<											>

BRIDGING THE PAST AND THE FUTURE

USABILITY ENHANCEMENTS

	NOLOGIES LTD.	File View Utility	① - □ >
<u>F</u> ile: C:\P\	X PLUS TECHNOLOGIES\PXPLUS\LIB_DEMO\2024\	DATA\PRODUCTS	6
<u>K</u> ey: Prima	ry Key: Product Code	🗸 File Info	
["Produc Alt. K	ry Key: Product Code y 1: Product Description+Product Code	уре:	Keyed
		Record Size:	384
Enter starting k	ey (size=12):	Primary Key Size:	12
BUS-3110-YLV		Current # of records:	192
∎∢ ♦ ▶	(Index=8193)	Search	
Field	Value		Length 🛕
Productcode\$	BUS-3110-YLW		12
Description\$	Bus - Yellow		12
Price	9.75		4
Qtyonhand	684		3
Ytdqtysold	459		3
Ytdsales	4475.25		7
Prvqtysold	1547		4
Prysales	15083.25		8
			¥
View multi	ole fields per line		<u>C</u> lose

FILE VIEW UTILITY

 Key definition information added to identify keys more easily when searching records

FILE VIEW & FILE UPDATE UTILITIES

• Query button added to key value to aid in selecting a particular record

File Query for C:\F	PVX PLUS TECHNOLOGIES\PXPLUS\	LIB_DEMO\2024\DATA\PRODUCTS	-	
Find text BUS-3110-YLW Match column:	✓ ✓ ► ✓ ► ✓ Favorites Add	 ☐ Columns ✓ Export ✓ Filters ✓ Charts ⑦ Formulas ᠃ Profile 	•	Print Refresh
Primary Key	Field 1	Field 2	Field 3	^
BUS-3110-YLW	BUS-3110-YLW	Bus - Yellow	9.75	
BUS-3111-CYN	BUS-3111-CYN	Bus - Cyan	8.5	
BUS-3112-VIO	BUS-3112-VIO	Bus - Violet	10	
BUS-3113-GRN	BUS-3113-GRN	Bus - Green	8.25	
BUS-3114-RED	BUS-3114-RED	Bus - Red	10.25	
BUS-3115-BLU	BUS-3115-BLU	Bus - Blue	8.25	
CAR-1320-GLD	CAR-1320-GLD	Safari Jeep - Gold	9.25	
CAR-1321-CYN	CAR-1321-CYN	Safari Jeep - Cyan	9.25	~
<				>
			Select	<u>C</u> lose

IN CONCLUSION

PXPLUS IS ALWAYS WORKING TO EXPAND THE TOOLSET AS WELL AS ENHANCE AND IMPROVE EXISTING TOOLS

- Recent Language Enhancements
 - Future Roadmap
 - Support Tickets
 - Forum Posts
 - User Suggestions