NEW AND UPDATED IDE UTILITIES

DireXions 2024

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

Cottingo Eilo:	C:\D\X Dlug Tophenes.txt	mode prop	aava b	+	
Settings File.		omads_prop_	save.u		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	and to use in a NOMADS environment. V	Vhen not set, t	the inte	rnal native charts are used in	the NOMADS
environment and "p	olus" charts are used in iNomads.				

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	ance		- L	
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 over-ridden (except	same word to the in the case of FN	e list of *).	User-De	fined	
Reserved Word		Data Dictionary	NOMADS	^	Dele	te Word	:)
			Controls	111			
CUSTOM		☑	Controls	T.	Doio		
CUSTOM EXAMPLE			Controls	ľ	Dele		
CUSTOM EXAMPLE ID			Controls		Dolo		
CUSTOM EXAMPLE ID NAME			Controls C C C C C C C C C		Dere		
CUSTOM EXAMPLE ID NAME PROPERTY			Controls 2 2 2 2 2 2 2 2 2 2 2 2 2		Doro		
CUSTOM EXAMPLE ID NAME PROPERTY READ			Controls				
CUSTOM EXAMPLE ID NAME PROPERTY READ TEST			Controls				

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 Dict	ionary for Reserved Words	0	×
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)			
*			PxPlu	us-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

	NOLOGIES LTD.		y 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 Pit	us Technologies(PxPlus/Lib/_den	10\2U24\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-Sensitive	Is 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

	TX PLUS File Viewologies LTD.	File View Utility							
jile: C:\P	/X Plus Technologies\PxPlus\lib_demo\2024\data\client		E						
Key: Prima	ry Key: Client ID V File Info								
["ClientldKe	/":1:1:6]	Type:	Keyed						
		Record Size:	640						
Enter starting k	ey (size=6):	Primary Key Size:	6						
016057 IA A D	(Index=51202)	Lurrent # 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						
Tincode	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\$	
	V	City\$	
		State\$	
	⊡ I	Country\$	
		Zipcode\$	
		Phonenumber\$	
		Phoneextension\$	
		WebsiteS	
	⊻	Webpwd\$	
	Z	Email\$	~
-		01	
		<u>O</u> K E <u>x</u> it	

File: C:\PV7 Filter	X Plus Technologies \PxPlus \ib\	_demo\2024\c	data\client								
Filter	dar Exampleion 🔲 Care S										
Expression Regu	dar Examanian										
r	ulai Dipression 🗌 Case-C	enstive	ls Not								
L										Search	Customize
Key Ci	lientid\$ Clientna	ame\$	Address1\$	Address2\$	City\$	StateS	CountryS	Zipcode\$	PhonenumberS	Phonee	xtension\$
016057 01	6057 Hemphil	Theatre	9489 Cozy Shadow Cl	Apt 1	Etang-du-nord	QC	Canada	GOM 1Q6	(581) 555-6421		
022632 02	2632 Irion Win	ery	4490 Middle Plaza	Suite 98	Southland Hills	ON	Canada	LOR 2L6	(807) 555-6746		
024363 02	4363 Falls The	atre	889 Noble Spring Road		Cuoq	QC	Canada	J3W 8D6	(514) 555-5442		
032475 03	2475 Brewster	Lighting	5998 Dusty Circle		Methlakahtla	BC	Canada	V1M 6Z2	(778) 555-3834		
033994 03	13994 Jackson	Formal Rentals	5201 Lost Jetty		Langruth	MB	Canada	R8P 2M1	(204) 555-6908		
034538 03	4538 Grayson	Nursery	1737 Hazy Stead		Reading	NS	Canada	B2K 7W7	(902) 555-5325		
038024 03	8024 Burleson	Construction	5574 Bright Green	Suite 88	Elsanor	MB	Canada	R7G 6H7	(204) 555-4666		
038588 03	8588 Clay Med	ical Center	7158 Lazy Crescent		Westoe	SK	Canada	S8R 100	(306) 555-7600		
039816 03	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 yy 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:\PVX P	PLUS TECHNOLOGIES\PXPLUS	LIB_DEMO\2024\DATA\PRODUCTS	-	
Find text BUS-3110-YLW ♥ Match column:	 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Image: Columns Image: Export Image: Filters Image: Columns Image: The formulas Image: Columns	•	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	~
<				>
			<u>S</u> elect	<u>C</u> lose