What's New in NOMADS 2019

PxPlus 2019 (v16)

DireXions 2019

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What's New in NOMADS 2019

- NOMADS Designer & IDE
- Data Dictionary
- Shape Controls
- NOMADS Controls
- Themes & Visual Classes
- Report Writer

NOMADS DESIGNER & IDE

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Pointer Tool on NOMADS+ Toolbar

NOMADS Designer & IDE



- Pointer Tool added to NOMADS+ Toolbar
 - Previously existed in Property Sheets but not Folder Style or NOMADS+
 - Used to select a single control or draw a selection box around multiple controls



Pointer Tool as Default Control

NOMADS Designer & IDE



- Setting Default NOMADS+ Control
 - Pointer Tool is the default control type when using Property Sheets
 - Ability to set the new Pointer Tool as the default control when entering NOMADS+ (rather than Button)
 - Persists for future NOMADS+ design sessions

Default Program on Logic Tab NOMADS Designer & IDE

- Added Default Program on Logic Tab (NOMADS+ and Folder Style)
 - The default program defined on the header of the panel now displays (disabled) on the Logic Tab for all other control types

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More Information in NOMADS+ Toolbar

- More information displayed for certain control types:
 - Listboxes
 - Standard, Formatted, List View, Report View, Tree View
 - Charts
 - 2D, 3D
 - Bar, Pie, Gauge, Column, etc.
 - Shapes
 - Rectangle, Arc, Circle, Ellipse, Pie, Line, Vertical Line, Horizontal Line, Radius Arc, Radius Circle, Radius Pie, Poly Line, Polygon

NOMADS Designer & IDE



Refresh of Library Object Selection Dialog NOMADS Designer & IDE

- Added ability to Refresh the main list box on the Library Object Selection Dialog
- Available from the Menu Bar



Refresh of Library Object Selection Dialog NOMADS Designer & IDE

- Available also from the Popup Menu of the Listbox
- Added to all three possible views
 - Toolbar View (default)
 - Button View
 - Menubar View

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• Listbox is repopulated in original sort sequence by Object Name

Release Notes on IDE Menu Bar

NOMADS Designer & IDE

- Added Release Notes on IDE menu bar
 - Quick access to the Release Notes (*from the PxPlus Help file*) that correspond with the current PxPlus installed version



Library Bulk Edit

- Library Bulk Edit Utility
 - Introduced in PxPlus 2017 to allow bulk panel changes to be made over entire screen libraries or directories
 - Abort Load button added in PxPlus 2018.1
 - PxPlus 2019
 - Dirty record checking
 - Data Classes

More details at Simplify Coding using Enhanced Data Classes PDF

NOMADS Designer & IDE

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Install Windows Services Utility

NOMADS Designer & IDE

- Install Windows Services
 - Accessible from the IDE/Installation and Setup menu option
 - Added new columns when installing EZWeb Server or Simple Client Server to correspond with new security options

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More details at the Data Protection & Lets Encrypt SSL/TLS Certificates and Using a Relational Database PDF

DATA DICTIONARY

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Data Dictionary Maintenance Updates Data Dictionary

- A new Database Convert button added to toolbar
 - Database Conversion Utility to assist in creating and populating SQL database tables from your Data Dictionary data files



- Element Description Maintenance
 - Dirty record checking
 - Added First Element and Last Element browse buttons

Separator DropBox on Info Tab

•

Data Dictionary

- PVX Plus Data Update New Copy Rename Delete Data Notes Q, Client Master File Name Description: Client Master File **Physical File** Info Fixed data/client Elements Expression Options Group: Application Type: Variable Length Block Size Default (in KB) Separator Default SEP The system default separator is \$8A\$. Do NOT use \$00\$, \$01\$, \$02\$, \$03\$, \$04\$, \$09\$ or \$04\$ in a Nomads environm
- Changed Separator DropBox in
 PxPlus 2019 Update 1
 - Added a new item **Default SEP**
 - If selected, file will be created with the system field separator based on 'FS' parameter (previously defaulted to \$8A\$)
- Also added an info box to suggest not using certain values in a NOMADS environment

Update of Global Dictionary Elements Data Dictionary

- New dialog allows edits made to Global Dictionary elements to also be applied to data file elements that share the same element Name and Type
 - Update Global Dictionary Elements in other Files button available when editing a Global Dictionary element
 - Message box appears when saving changes to a Global Dictionary element and other elements with the same Name and Type exist in the Data Dictionary

OGIES LTD.		Element Description	• ×
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Update Global Dictionary Elements Dialog Data Dictionary

- Update All or Selective occurrences
- Updates the entire element record to match the Global element record (not just the latest changes)
- Does **NOT** update the physical file

			Update Global Dictionary Elements					
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SHAPE CONTROLS

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PxPlus 2018 Shape Controls

Shape Controls

- Arc
- Circle (Ellipse)
- Line
- Pie
- Polygon
- Rectangle (Default)





Shape Controls

- Rectangle Definition: (default shape)
 - Size defined by column, line, width and height of shape drawn in the designer
 - Enter Pen Style, Width and Color (border)
 - Enter Fill Pattern and Fill Color(s) (two colors if using a gradient)
 - Enter optional Radius (rounded corners)





Original Arc, Circle, Ellipse & Pie Shape Controls



- Original Arc, Circle, Ellipse & Pie definitions:
 - Center defined by column and line of shape drawn in designer (top, left corner)
 - Enter Pen Style, Width and Color (border)
 - Enter Fill Pattern and Fill Color(s) if not Arc
 - Enter Radius and Ratio (ratio =1 for Circle)
 - Enter Angles if Arc or Pie

Original Line and Polygon

Shape Controls

- Original Line and Polygon definitions:
 - Start position defined by column and line of shape drawn in designer (top, left corner)
 - Enter Pen Style, Width and Color (border)
 - Enter Fill Pattern and Fill Colors if Polygon
 - Enter X/Y Values in graphical units (multiple for polygon)





Problems with Original Shape Controls

Shape Controls

- Difficult to locate the shape control to edit for all shapes except Rectangles
- Difficult to determine X/Y Values for a Line or Polygon
 - Many use a frame 0 high or 0 wide instead of a horizontal/vertical line
- Hard to estimate the radius needed for the proper size
- Resizing
 - Impossible to resize Lines in *i*Nomads because of graphical units in a browser environment
- Font settings with different aspect ratios will result in different locations for the X/Y graphical units used in Lines and Polygons

New Shape Controls for PxPlus 2019 Shape Controls

- Re-designed all shapes controls except Rectangles and Polygons
 - Consider using an image or bitmap rather than a polygon
- Kept old definitions for compatibility but renamed them
- Going forward controls can use the new shape definitions
- Convert functionality
- Resizing logic makes more sense

Shape Names

Shape Controls

PxPlus 2018 Shape	PxPlus 2019 Shape
Rectangle	Rectangle (unchanged)
Polygon	Polygon (unchanged)
Radius Arc	Arc
Radius Circle	Circle
Poly Line	Line
Radius Pie	Pie

New Arc, Circle, Ellipse & Pie

Shape Controls





- New Arc, Circle, Ellipse & Pie definitions:
 - Size is defined by rectangle drawn (circle centered in smallest dimension)
 - Enter Pen Style, Width and Color (border)
 - Enter Fill Pattern and Fill Color(s) if not Arc
 - Enter Angles if Arc or Pie
 - Selection of Circle or Ellipse

New Lines



- New Line definition:
 - Size is defined by rectangle drawn
 - Enter Pen Style, Width and Color
 - Selection of Line Type
 - Horizontal / Vertical / Down / Up
 - Horizontal and Vertical lines are centered in shape drawn



Conversion of Shapes

Shape Controls

 Conversion button added when shape is Poly Line, Radius Arc, Radius Circle or Radius Pie

Confirm		\times
?	Are you sure you want to convert control 'CIRCLE' from a Radius Circle to a Circle control type?	
	<u>Y</u> es <u>N</u> o	



• Co-ordinates etc. adjusted so shape appears the same

New Shape Controls



Shape Controls

Advantages of New Shape Controls

Shape Controls

- Clicking on the shape will always select the control in the designer
- Definition and positioning of shape controls is simplified and more intuitive
- Shapes resize correctly in relation to other controls on the panel
- Lines can now also be resized in *i*Nomads
- Fonts with differing aspect ratios will not affect the overall shape of the control rendered (no more graphical units)
- Can still use old controls if desired (Arc, Pie at edge of panel)

Sample Work Flow Chart



Shape Controls

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NOMADS CONTROLS

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Panels

Nomads Controls

- Global setting to suppress persistence on panels with relative location settings:
 - Set %nomads'RelPnl_Suppress_Persistence
 - Settings:
 - 0 = Panel persistence is not suppressed (default)
 - 1 = Suppress panel persistence (location & size)
 - 2 = Suppress location persistence only (panel size persists)





Panel Header

NOMADS Controls

- Panel Header option to suppress Panel Persistence for panel
 - Panel Persistence option on Attributes tab
 - Settings:
 - Default (based on
 - %nomads'Panel_Info_Prog\$ and %nomads'RelPnl_Suppress_Persistence)
 - Suppress persistence (location & size)
 - Suppress location persistence only

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	Panel: INV_MNT	Last update: 2017/09/	01 18:54 Mike King
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- Moveable Attribute
 - Button can be moved by dragging it with the mouse
 - Relocation not persistent
 - i.e. Buttons will return to their original positions when the panel is next invoked or resized









Buttons, Checkboxes, Radio Buttons NOMADS Controls

- New Center/Scale Bitmap Alignment and Scale Bitmap options on the Display tab
 - Bitmap scaled and centered in button
 - Centered text overlays bitmap
 - '4D' mode only



Alignment:

Center/Scale

Top, Bottom and Center/Scale alignments and the Scale Bitmap option only work in 4D mode.

V

Scale bitmap



Buttons, Checkboxes, Radio Buttons

NOMADS Controls

- New Bitmap Image options:
 - Image Transparency
 - Flip Image horizontally, vertically, both
 - Rotation Angle (0-360 degrees)
 - Invert Image
 - Gray Scale Image
 - Cropping

	S Image Options
Options	
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Flip Image:	None ~
Rotation Angle:	90 🛟 🕵 (Counterclockwise rotation)
Invert Image	
Gray Scale Image	
Cropping (Pixels from To	op/Left of Image (0,0)):
Left:	Тор:
Right:	Bottom:
	<u>O</u> K <u>C</u> ancel



Note: Image Transparency and Cropping are not supported in *i*Nomads

Charts

- Chart Brand setting on Display tab
 - Override setting in %nomads'Chart\$
 - Settings:
 - Default (from %nomads'Chart\$)
 - Plus
 - RGraph
 - Google
 - FusionCharts
 - FusionFree
 - Native
- Added *iNomads* Class setting on Font/Color tab

More information in the Charting 101 and Smart Charts PDFs

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NOMADS Controls

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- Folder Navigation
 - Added support for PageUp / PageDown arrows to navigate through SideBar folders when focus is on the tab.

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Grid

DireXions

NOMADS Controls

- New Presets Properties:
 - LockTop Number of rows at the top of the grid to be excluded from sorting
 - ShowLocked Grid-level property

0 =Color of locked cells does not change BackHilight colors

- 1 = Locked cells have grayed background (default)
- Lock Option "2" Locks the cell but allows input-style selection

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'ShowLocked=1 'ShowLocked=0

• New Grid Presets features:

- Filter the **Property List** by property type:
 - Show All
 - General
 - Cell
 - Row
 - Column
- Right-click Property selection by property category:
 - Contents
 - Display/Color
 - Formatting
 - Grid

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• Interface

- Layout
- Misc.

NOMADS Con





- New Grid Presets features:
 - Insert a new row above or below the current row
 - Create a duplicate of the current row and insert below
 - Rearrange rows using drag and drop
 - Replace column number settings with column names
 - New Format button to launch Grid Format Definition dialog







- New Graphic Display option
 - Centered (scale and crop)







- New Attributes:
 - Lock Top Rows
 - Number of rows at the top of the Listbox to be excluded from sorting
 - Center Text Vertically
 - Select to center text vertically in the Listbox row when Lines Per Row is > 1
 - Text that exceeds the column width is truncated and an ellipsis (...) is displayed
 - When not selected (Default), text is aligned to the top of the Listbox row, and text that exceeds the column width is word wrapped

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Client ID	Name	City	Prov	^	Client ID	Name	City	Prov	^
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033994	Jackson Formal Re	Langruth	MB		033994	Jackson Formal Rentals	Langruth	MB	
034538	Grayson Nursery	Reading	NS		034538	Grayson Nursery	Reading	NS	
038024	Burleson Constructi	Elsanor	MB	~	038024	Burleson Construction	Elsanor	MB	~

DireXions 2019

NOMADS Controls

- Delete key enabled to delete items from menu contents
- Added Merge-Jumpto function to Item/Group definition

Details

Attribute

- Process a concurrent panel
- Menu Item/Group/Link Bitmaps attribute assignment
 - Bitmap to appear to left of text
 - Can now assign Normal and Checked bitmaps as expressions

	item/Group		
	Item:	85. Maintnenance	
•	Function:	Merge-Jumpto V "cstmaint","work"	
	Item State:	Show Item V Include Line Separator (line appears below menu item)	
De	tails I	Bitmaps (Preview may not be to scale) Normal: Expression v mnu unchecked\$	
		Checked:	
		Expression V mnu_checked\$	



Multi-Lines

NOMADS Controls

- Spell Check attribute added
 - Enable spell checker for the Multi-Line
 - If *off*, the system-wide setting in 'OPTION'("AutoSpellCheck") is used
- Permalock Multi-Line with query
 - Transfer Multi-Line hotkey to query button
- Query Bitmap assignment
 - Can now assign Bitmap Image as an expression
 - Also added to grid cell Query Preset definition





Fixed Text and Scrollbars

NOMADS Controls

- Added *i*Nomads Class setting for less common control types
 - Fixed Text In Font/Color tab
 - Vertical & Horizontal Scrollbars In Display tab

iNomads Class
You may assign a CSS class attribute or multiple class references separated by a space For a list of available iNomads Classes, click <u>here</u> .

Extended Controls

NOMADS Controls

- TinyMCE HTML Editor
 - Updated to version 4.9.2
 - Two new layouts using menu, buttons, and drop boxes Modern (returns HTML code for full page) Narrow (ret



Narrow (returns HTML code snippet)



Extended Controls

NOMADS Controls

Back Forward Print... Πίσω View page source Προώθηση Εκτύπωση... Προβολή κώδικα σελίδας

Retour
Avancer
Imprimer
Afficher le code source de la page

*Browser •

- Multi-lingual support added
 - Display websites, menus, etc. in a specified language
 - Based on the Windows user language
 - Override using: •
 - PxPlus INI file [Config] section ٠
 - BrowserLang=LanguageCode •
 - 'OPTION'("BrowserLang",LanguageCode\$) •
 - **Overrides INI settings** •
 - Set when browser first instantiated, cannot be reset

Custom Title Bar Controls

NOMADS Controls

• Automatically set up logic for special title bar controls:

PX_TitleBar_SysMenu PX_TitleBar_Caption PX_TitleBar_Min PX_TitleBar_Max PX_TitleBar_Close (System menu button)(Panel caption)(Panel minimize button)(Panel maximize button)(Panel close button)



File Maintenance for Invoice Header

• Leave Logic settings blank, and NOMADS will handle the logic automatically

THEMES & VISUAL CLASSES

DireXions 2019

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Theme & Visual Class Maintenance

- Easier Access to Maintenance Programs
 - Access Themes and Visual Class Maintenance from the Utilities menu in Library Object Selection
 - Access Themes Maintenance from Font/Color tab of Library Defaults and the Panel Header
 - Access Visual Class Maintenance from panel control definitions (Buttons, Multi-Lines, etc.)



Themes & Visual Classes

	1 1	Merge			12
Object Name	Туре	Export	Date	By	
Blankfolder	(D)	Imbou	2 09:34	Mike King	
Clients	(D)	AutoChart File Maintenance	21 18:38	Mike King	
Contact	(D)	Chart Image Scheduler	38 21:43	Mike King	
Custinfo	(D)	Chart Image Scheduler	23 11:35	Mike King	
Custinv	(D)	Create/Remove Customizer Library	38 10:56	Mike King	
Custmap	(D)	Customize Panel	20 13:25	Jane	
Custsales	(D)	Library Bulk Edit	18 10:32	Mike King	
Custstat	(D)	Query Bulk Edit	22 09:36	Mike King	
Invheader	(D)	Ourse Destile Maintenance	37 15:35	Mike King	
Invinfo	(U)		_ 17 15:35	Mike King	
Invlines	(D)	Themes Maintenance	22 12:04	Mike King	
Invoices	(D)	Visual Class Maintenance	22 13:37	Mike King	
Invshipto	(D)	visual Class Maintenance	38 16:46	Mike King	
Logon	(D)	Visual Class Assignment	17 15:02	Mike King	
Main	(D) 1	Main panel 2019/0	5/13 10:11	Mike King	
Objects New/M	aintain	Options	Utilitie	5	
				and the second se	and is

Focus Background & Text Color

Themes & Visual Classes

- Focus Background Color & Focus Text Color
 - Added to:
 - Listbox
 - Dropbox
 - Variable Listbox
 - Variable Dropbox
 - Multi-Line

Client Code	4566
Client Name	Howard's Grocery
Region	

	BLUE	99	
Control Type:	Multi_Line	\checkmark	
Property		Value	
•		Attributes	
Borderless			
Center Text			
Locked			
Right Justify			
Transparent Backgro	und		
Uppercase			
•		Colors	
Background		Default	
Foreground		Default	_
0		Colors (States)	
Focus Background C	olor	White	
Focus Text Color		Light Blue	
-		FUIL	
Font		<default font="" graphic=""></default>	

Button and Listbox Properties

Themes & Visual Classes

- Button
 - Added Moveable attribute

	IUS ES LTD.	Vi	sual Classes	() — (] >
Class Name:	MOVEABLE			鍋	
Class Theme:				~	
Control Type:	Button		~		
Description:					
Property	Value	5			^
•		Attributes			
Bitmap Button					
Border Style				•	
Border Width				-	
Drop-List Button					
Flat Button					
Flat-No Border					
Hover Color					
Tiover Corpor	Denos			_	
Moveable					
Transparent					
Underscore					
•		Colors			
Background Color	Defau	it.			
Background Color 2	Defau	it .			
Border Color	Defau	it.			
Border Color 2	Defau	it .			~
н • м	Write	<u>D</u> elete	Cļear	Ext	

- Listbox
 - Added Column Size Lock and Center Text Vertically

Theme:	THEME_1		<i>6</i> 13		
Control Type:	List_Box		\sim		
Property		Value			^
Borderless				_	
Disable Sorting					
0	Λ	ttributes (Rej	oortView)		
Auto Column Size					
Center Text Vertica	lly				
Column Size Lock					
Grid lines		Horizontal lin	es	-	
Header Lock					
Lines Per Row		2.0			
Sort Options		Default			
0		Color			
Background		Default			
Foreground		Default			
Header Backgroun	d Color	Default			
Header Text Color		Default			

Chart Properties

- New Chart Properties
 - Added for new Plus charts:
 - Bitmap
 - Connector Line
 - Legend Location
 - Pastel Palette (works for all charts)
 - Show Values
 - Default Color
 - Face Color (Back)
 - Face Color (Bottom)

Themes & Visual Classes



REPORT WRITER

DireXions 2019

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Report Writer Font Alignment

Report Writer



	4. Center Top	
	5. Center Middle	
	6. Center Bottom	
	7. Right Top	
	8. Right Middle	
	9. Right Bottom	
ce	Std Cost	

Before:

Cost	Std C	Price	Description	Product Code
			Description	

Now:

		-	
Product Code	Description	Price	Std Cost
		24	

Report Writer Parameters

Report Writer

- Report Writer Parameter Definition
 - Added new parameter specifications used by the default parameter interface
 - Added Format column to specify an input format string for the parameter

Report Parameters (1) Help							🛞 с				_		×				
Parameter Name	Class	Pompt /	Туре		Maximum Length	Minimum Value	Maximum Value	Default Value	Format			Start Date	Settings 2019-09-17				
startDate		Start Date	Text	•	12	Value	Value	Value	0000-00-00			End Date	0000-00-00	J			
endbate		and Date	Text	•	12				0000-00-00	18							
		J									Default				<u>O</u> k	<u>C</u> ancel	

• Added ability to specify a Data Class to be applied in the parameter interface

Details about using Data Classes in Report Parameters will be shown in the Simplify Coding using Enhanced Data Classes PDF

Additional Resources

<u>PxPlus 2019 Release Notes</u>