

The *i*Nomads Evolution



What is *i*Nomads?

Building blocks of Web Deployment



Goal for *i*Nomads

- Time saving and low cost means to migrate to the Web
 - Allows existing application to run from a browser
 - Designed to minimize re-development costs
 - Minimal time and effort to migrate application
 - Targeted for 'controlled' user counts
 - < 1000 concurrent users
- Long-term to provide full functionality of Windows systems on the Web



*i*Nomads Focus This Session

- New functionality within *i*Nomads
 - Closer to full native Windows functionality
 - Provide options for more Web style interfaces
 - Allow more non-Nomads applications to run
 - Simplify the setup and configuration



Major Topics

- Floating Overlaid Windows
- The Hamburger
- Auto-Paginated Lists and Grids
- Template Designer Wizard
- Graphic Support – Lines & Circles
- Native Application Support
- General Enhancements



Floating Overlaid Windows

How did we improve Window management?



Floating Overlaid Windows

- Browser and end-user settings controlled window creation pre-PxPlus 2016
 - New windows might be sent to new Tab or External Window
 - Popup blocker could prevent Windows from appearing
 - Hard / Inconsistent to restrict Window frame
- PxPlus 2016 now can use iFrames
 - Allows new Floating Window within main display



Floating Overlaid Windows

- Floating **iFrame** window controlled by template setting
 - First/top window uses template layout and doesn't float
 - Subsequent windows overlay in 'panel' region
 - Windows will honor position relative panel
 - i.e Centered, Relative, Absolute
 - Provides a layered look similar to Windows
 - On reconnect system, all window are resent



Floating Overlaid Windows

- How this was done
 - iNomads creates an iFrame over complete browser
 - iFrame slightly dims background to be default
 - Uses semi-transparent dark color (can be stylized with CSS)
 - New Window created within that iFrame
 - No template background only title bar
 - Window can be dragged using title bar
 - Resizing is available



Floating Overlaid Windows

● Advantages

- Controlled by *iNomads* and not subject to End-user or browser settings
- Avoids potential issues with Popup blockers
- More consistent display with application on desktop
- Maintains visibility of prior windows
- Faster to display



The Hamburger

How to make *iNomads* look more like other Internet applications?



The Hamburger

- What is the Hamburger Menu?



The Hamburger

- What is the Hamburger Menu?



Plain Burger
Cheese Burger
Banquet Burger
Veggie Burger



The Hamburger


- What is the Hamburger Menu?



- Generally placed in the upper left/right of screen
 - Provides access to menu options for the applications
 - Commonly used as real estate on the screen is at a premium
 - Used in lieu of an omnipresent menu bar



The Hamburger

- Used in lieu of Menu bar
 - Hamburger ICON placed in top left of title bar
 - ICON is text thus color controlled by title bar text colour
 - When clicked top line menu bar displayed
 - Use of Hamburger Icon controlled by template (layout tab)
 - Created using the following HTML in title
 - Can be tailored using CSS which currently defaults to top left floating 

```
<div id='id_3Lines'>&equiv;</div>
```



Auto-Paginated Lists and Grids

How can we improve page load times?



Auto-Paginated Lists and Grids

- Scrollable versus Paged output

Client ID	Name	
016057	Hemphill Theatre	9489 Cozy Sh
022632	Irion Winery	4490 Middle
024363	Falls Theatre	889 Noble Sp
032475	Brewster Lighting	5998 Dusty C
033994	Jackson Formal Rentals	5201 Lost Jel
034538	Grayson Nursery	1737 Hazy St
038024	Burleson Construction	5574 Bright C
038588	Clay Medical Center	7158 Lazy Cr

Client ID	Name	
016057	Hemphill Theatre	9489 Cozy Shad
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024363	Falls Theatre	889 Noble Sprin
032475	Brewster Lighting	5998 Dusty Circ
033994	Jackson Formal Rentals	5201 Lost Jetty
034538	Grayson Nursery	1737 Hazy Stead
038024	Burleson Construction	5574 Bright Gre

Pg: 1 2 ... 29

Current Page

Jump to Page

Shift Columns



Auto-Paginated Lists and Grids

- Advantages of Paged output
 - Faster load times for large lists
 - Only sends one page at a time
 - Easier to control on touch screens, such as, a Smartphone
 - Scroll bars can conflict with scrolling of screen
 - User knows roughly the number of items in list/grid
 - Total number of pages defines list length



Auto-Paginated Lists and Grids

- Using Paged list boxes/Grids
 - Controlled by template
 - Check box on the “Lists” tab for template configuration
 - Will apply to ALL lists/grids more than 5 or more lines high
 - Override with *iNomads* class in Nomads definition
 - “**pagedview**” forces paged output
 - “**scrollview**” forces scrollable output
 - No program changes
 - Program does not know output is being paged
 - Continue to load list box / grid as per normal



Template Designer Wizard

Making it easier to design a browser layout



Template Designer Wizard

- Templates control the layout of the pages
 - Define the following information
 - The 'wrapper' used to present Nomads panel or window
 - The font, colors, spacing and other attributes of display
 - Control various system settings, such as, pagination, menu bars, etc.
 - Custom style sheets and system images



Template Designer Wizard

- Wizard walks you through definition of template
 - Simplifies the creation of new templates
 - Wizard based on Wizard-Wizard format
 - Steps you through the selection process:
 - Basic layout of web page
 - Size of various headers, footers, and side bars
 - Background colors or images
 - Text fonts, colors, and sizes
 - Built-in menus for access to external web pages



Template Designer Wizard

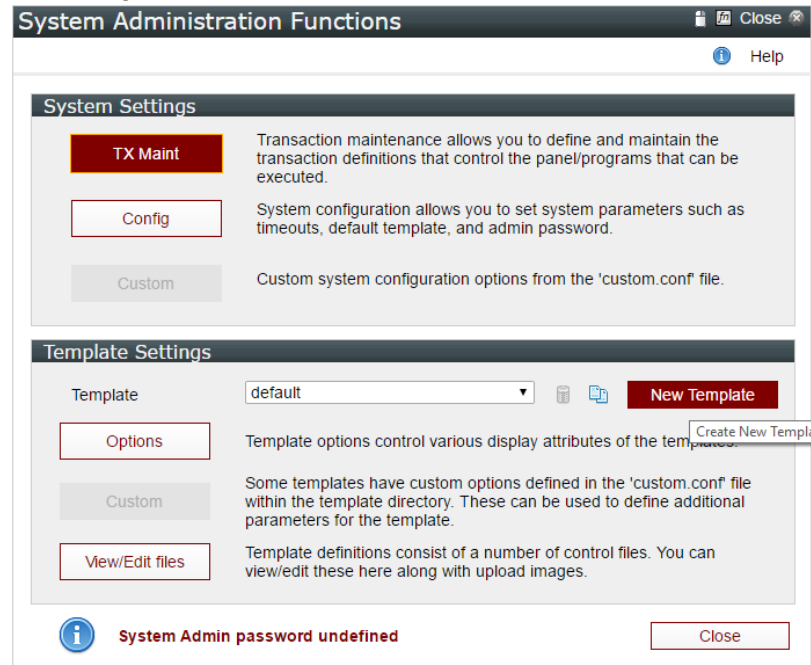
● Two options to initiate Template Wizard:

● From Desktop

RUN *plus/inomads/admin

● From *i*Nomads

txid=admin



Template Designer Wizard

● Step 1 – Define the basics

Name of Template

Background Color

Background Image Info

Position of Background Image defaults to “left top”. Options to repeat, to fill page, line, or vertical column.

The screenshot shows the 'Template Wizard' window with the title 'Step 1: Name Template - Name the template and configure the page background.' A progress bar at the top indicates eight steps: 1 (Name), 2 (Layout), 3 (Sections), 4 (Panel Header), 5 (Panel Body), 6 (Frames), 7 (Folders), and 8 (Finish). Step 1 is currently active. Below the progress bar, there are two sections: 'Define a name for the template' with a 'Name:' text input field, and 'Define the page background color or image. This will be the default used in any section not specifically defined for the template'. This second section includes a 'Color:' color picker, an 'Image:' image selection button, a 'Repeat:' dropdown menu set to 'repeat', and a 'Position:' dropdown menu set to 'left top'. At the bottom of the window, there are three buttons: 'Back', 'Next', and 'Cancel'.

Track your Steps

Advance to Next Step



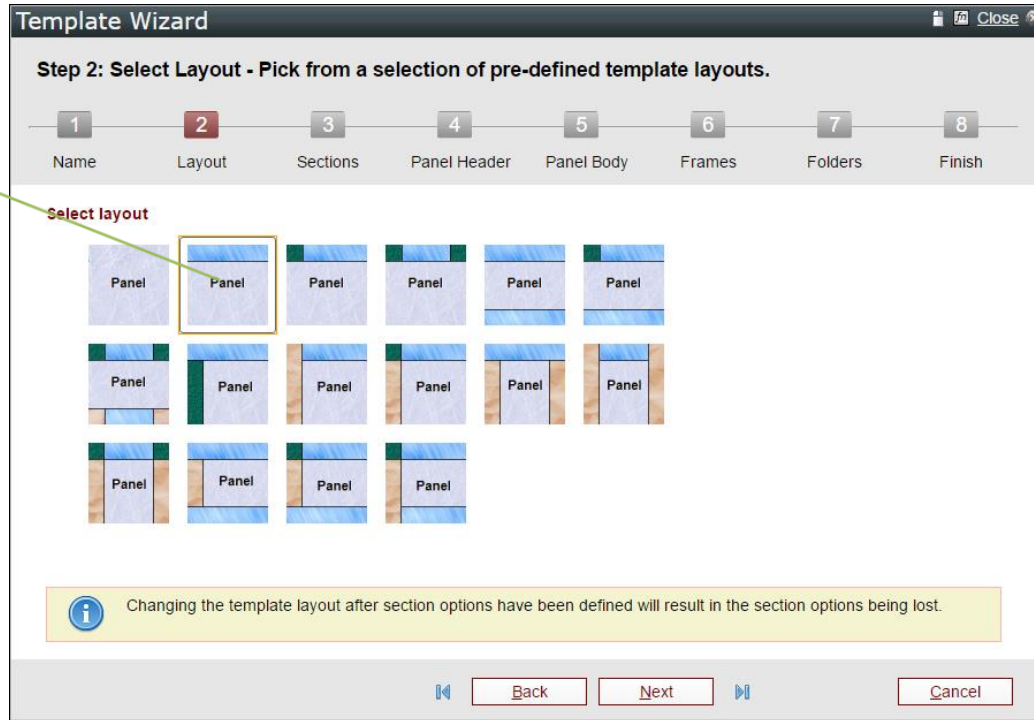
Template Designer Wizard

● Step 2 – Select layout

Select Basic Page Layout

iNomads comes with 16 default layouts. Select the basic layout that **best** suits your needs.

The advanced layout maintenance in the template customizer can be used to create other layout formats.



Template Designer Wizard

● Step 3 – Define each section on your web page

Select Section

Each section on a page can be adjusted to fit your requirements.

Define the size of each section.

For sections that span full page width, no width needed.

For section that span full height, no height needed.

Template Wizard

Step 3: Configure Layout - Configure the layout for each section of the template.

1 Name 2 Layout 3 Sections 4 Panel Header 5 Panel Body 6 Frames 7 Folders 8 Finish

Click on the template section you wish to configure

Section: 1

Background Color:

Background Image:

Repeat: repeat

Position: left top

Width: (pixels)

Height: 150 (pixels)

Section Contents

Template	Contents

Back Next Cancel

Define Width or Height

Add Text, Menus & Images

Template Designer Wizard

● Step 4 – Configure panel region

Define Title Region

Title can be Suppressed

Your panel/window section has specific needs for title and an optional border.

Border can include rounded corners and a shadow effect.

Template Wizard

Step 4: Configure Panel - Configure the appearance of the panel header and borders.

1 Name 2 Layout 3 Sections **4 Panel Header** 5 Panel Body 6 Frames 7 Folders 8 Finish

Define the appearance of the panel header

Background Color:

Background Image:

Suppress Header Text

Text Color:

Text Font:

Font Size:

Define the appearance of the panel border

Color:

Style:

Width: (pixels) Corner Radius: Shadow

Panel Header Text

< Header Background >

Panel Border

Back Next Cancel

Template Designer Wizard

● Step 5 – Define panel body

Background of Panel

Font/Color of Contents

The screenshot shows the 'Template Wizard' dialog box at Step 5: 'Configure Panel - Configure the appearance of the panel text and background.' The wizard has 8 steps: 1. Name, 2. Layout, 3. Sections, 4. Panel Header, 5. Panel Body (current), 6. Frames, 7. Folders, and 8. Finish. The 'Panel Body' step is highlighted with a red background. The main area is divided into two sections: 'Define the default appearance for the panel background' and 'Define the default appearance of any text located in the panel'. The first section includes fields for 'Background Color', 'Background Image', 'Repeat' (set to 'repeat'), and 'Position' (set to 'left top'). The second section includes fields for 'Text Color', 'Text Font', and 'Font Size' (set to '0'). On the right, a preview window shows a 'Panel Header (step 4)' with two 'Panel Text' labels, a '< Panel Background >' label, another 'Panel Text' label, and a 'Panel Border (step 4)' at the bottom. At the bottom of the dialog are 'Back', 'Next', and 'Cancel' buttons, with 'Next' being highlighted in red.

Panel background normally controlled by template. Program override is allowed.

Template Designer Wizard

● Step 6 – Frame definition

Background of Framed Region

Border of Frame

Title/Header for Frame

Framed regions can be highlighted by defining special background and header format.

Template Wizard

Step 6: Configure Frames - Configure the appearance of any frames within the panel.

1 2 3 4 5 6 7 8

Name Layout Sections Panel Header Panel Body Frames Folders Finish

Define the appearance of the frame's header background

Header Background Color:

Header Background Image:

Background Color:

Define the appearance of the frame border

Color:

Style:

Define the appearance of the text in the frame header

Text Color:

Text Font:

Text Size:

Back Next Cancel

Template Designer Wizard

● Step 7 – Folder definition

Background
for Contents

Folder
Border

Colors for
Tabs

Tab text and
background colors
can be assigned for
each state.

Template Wizard

Step 7: Configure Folder - Configure the appearance of any folders on the panel.

1 2 3 4 5 6 7 8

Name Layout Sections Panel Header Panel Body Frames Folders Finish

Define the background color for the folder

Background Color:

Define the appearance of the folder border

Color:

Style:

Define the colors for the folder tabs

Active Tab Background:

Active Tab Text:

Inactive Tab Background:

Inactive Tab Text:

Disabled Tab Background:

Back Next Cancel

Template Designer Wizard

● Step 8 – Review layout and save

The screenshot shows the 'Template Wizard' window at Step 8: Finish. The progress bar at the top shows steps 1 through 8, with step 8 highlighted. The main area displays the title 'Template Designer Wizard is Complete' and a summary of the template configuration. The summary includes the template name 'direxions', the layout 'Panel', and two sections with their respective heights. At the bottom, there are buttons for 'Back', 'Next', 'Finish', and 'Cancel'. A 'Click here to preview the template' link is also present.

Step 8: Finish - Review summary and save the template.

1 Name 2 Layout 3 Sections 4 Panel Header 5 Panel Body 6 Frames 7 Folders 8 Finish

Template Designer Wizard is Complete

You can review your selections below. [Click here to preview the template](#)

Template Name:	direxions
Template Layout:	Panel
Sections	
Section:	1
Minimum height:	150
Section:	2

Click Finish to save the template.

Back Next Finish Cancel

Summary
for
Template

Click to test
template

Click Finish
to Save

If you don't click finish,
template will **NOT** be
created.

Graphic Support - Lines & Circles

Enhancing support of Graphics



Graphic Support - Lines & Circles

- Direct graphic drawing on Web page support
 - *iNomads* 2014 supported horizontal lines and rectangles
 - *iNomads* 2016 added support for:
 - Circles/Ovals both with the 'CIRCLE' mnemonic or thru Nomads
 - Angled lines with either the 'LINE' mnemonic or thru Nomads
 - Typical uses:
 - Custom folder tabs, floor plans, connector lines



Native Application Support

What did we add for non-Nomads programs?



Native Application Support

- Mouse and Keyboard events
 - Support CTL events for OBTAIN / INPUT from console
 - Can track mouse clicks and dragging
 - TIM= also supported
 - Can set timeout for single CTL event input



General Enhancements

What else were we up to?



General Enhancements

- Implemented new run-time menu generation interface
 - Allows developer to interface with existing menu logic
 - Program defines menu entries, levels, text and URL
 - User security can be handled by program to restrict menu
 - For more details:
http://manual.pvxplus.com/page/iNOMADS/Menu_Generation.htm



General Enhancements

- Improved overall performance
 - Reduced screen redraws using dynamic updates to controls
- Enhanced the look of built in Calendar and Calculator
- Added theme and visual class support
- Drop query was implemented
- HSL and blended color support was added



General Enhancements

- Updated standard image library
- Added embedded Query button support
- Integrated in the IDE
 - New Test transaction logic added to Nomads designer



Additional Resources

The help link(s) below refer to the current on-line help pages. The functionality may have been further updated since the PxPlus 2016 (version 13) release.

- [iNomads Introduction](#)
- [iFrame](#)
- [Hamburger Menu](#)
- [Auto paginated Lists](#)
- [Template Designer Wizard](#)

