

Using Help

Documentation for the NetPoint Application is available via **Help**. The NetPoint FAQ periodically updates NetPoint help information. Please check regularly for the most current information. Additional documentation on specific, more advanced features may also be found under **Help** or by contacting PMA Technologies.

System Requirements

Virtual Memory

A minimum of 1000MB of virtual memory (RAM) is needed. For plan development of 250 to 500 activities, a minimum of 2GB is recommended. For plans with more than 500 activities, 4GB is recommended. These levels of RAM allow you to maintain a seamless, instantaneous refresh of the active planning surface during a planning session. An under-resourced computer may cause a delay when the screen updates.

Monitor Display

The highest screen resolution setting is best for both projected images and your monitor. A minimum screen resolution setting of 1024x768 is required.

Operating System

You will need Windows XP, Service Pak 2, or a more recent operating system.

Compatible External Programs


Primavera 6.0, Microsoft Project 2007, Microsoft Excel. Synchro

Hands-On Interactive Application

The object-base nature of the NetPoint application is ideal for using a touch screen, hand-directed and voice recognition software to quickly move and modify the your plan or schedule. You can find NetPoint Best Practices at pmatechnologies.com for tips, room setup and product recommendations.

Getting Started

Creating a New Plan

A new NetPoint plan will open in a letter-size window with the default calendar set at 6 months prior and 12 months after the current date. The **Schedule Attributes**  will open automatically allowing you to set the Project Calendar. Be sure to include some buffer before Project Start and after Project Completion.

Project Calendar – set Calendar Starting Date and Calendar Ending Date to define the active planning surface. A drop-down calendar option is available to set these dates by clicking on the black arrow next to the date box. Dates may be modified at any time during the planning process.

Project Start and **Project Completion** – set **Project Start** and **Project Completion** dates for the plan by either entering them manually or by clicking on the the black arrow next to the date box for the drop-down calendar. You can also set them graphically by right clicking on the canvas and selecting the **Set This Date As** option. Once the Project Start and Project Completion dates are placed on the canvas they can be further edited by grabbing and moving the project start/finish flags on the active planning surface to the desired dates.


Print Setup – establish the **Print Setup** which will determine the active planning surface for your plan. A NetPoint plan will print as displayed on-screen so select the paper size that will maximize the presentation of your plan. If the plan is cropped or skewed, adjust the page size in **File > Print Setup** until the plan is fully viewable on the canvas. Additional print capabilities such as plotting or tiling should also be considered.

*Note: Longer timescales create a plan proportionally smaller and vice versa. Printing to Adobe PDF for a custom page size can be very helpful. **Print Tiling** allows maximum flexibility, up to 50 vertical and horizontal pages. **Print Tiling** is an independent feature set with each use.*


Opening an Existing Plan

Existing plans in NetPoint open in the size last saved if networked to the associated printer. Otherwise, a plan opens in the default letter size, in which case a message box will open providing the planned Print Setup; adjust the settings as indicated in this message to open the existing plan. *NOTE: If a plan opens cropped or without scroll bars, increase the page size until the full plan is in view.*

Resizing a Plan

To view an **As Print** (similar to Print Preview) plan, exit **Zoom** and **Stretch**  commands and reset the text size by selecting **Display>Text Size** and setting the text to petite or small. This should prevent data clashing in your plan for the printed version..

Use **Zoom** via the icon  or hold **SHIFT+ARROW** key (or roll mouse wheel). To exit **Zoom**, hold **SHIFT+ENTER** or select **Default Zoom Factor** in the Zoom/Stretch box.

Use **Stretch** via the icon  or hold **CTRL+ARROW** key (or roll mouse wheel). To exit **Stretch**, hold **CTRL+ENTER** or select **Default Stretch Factor** in the **Zoom/Stretch** box.

Working with NetPoint


Excel Template for Activity Entry

For simple entry of multiple activities, use the Excel Template for Activity Entry found in the NetPoint Transfer folder located in on your C drive. To enter your activities carefully follow the instructions found in the Excel template. Once the template is ready you can implement it by selecting **File > Export/Import > Import from Excel**.

When importing activities **Without Dates**, you will be prompted to set the project calendar to accommodate imported activity dates. Note: If you accept the default setting, you will not have access to activities that fall outside of the calendar settings. The **With Dates** option sets the calendar for you; reset the calendar and Project Start and Completion flags once the import is complete.

All activities import one grid per activity and are ready for modification and logic ties. The new plan automatically tiles pages to accommodate imported activities. After optimizing the plan and logic ties are in place, reset the page size and/or eliminate page tiling via **File > Print Tiling**.

Placing Objects

To place objects, use the selection tool  to select an object icon (e.g., milestone, benchmark, activity) and graphically estimate calendar placement by hovering the mouse (crosshairs) over the calendar area; the date will display next to the position of your mouse. Click the canvas when you have the desired location. When placing an activity, click and hold the activity while dragging it to the desired duration/end date.


Modifying Objects

Once an object is placed, graphically adjust the object date or grid placement by clicking and dragging to the desired location or date. To change the duration of an activity make sure it is selected and hover over the end node until a double arrow appears. Click and drag the end to the desired date or duration. You can also modify properties in the object's property box by double clicking or right clicking the object and selecting **Properties**. To modify multiple objects, first select objects to be commonly modified on the canvas using **SHIFT+click** (for more advanced selection, use **Edit > Find Multiple Activities**), then select **Edit > Set Properties for Selected Objects**..



Finding Multiple Objects

The **Find Multiple Objects** feature searches for objects with specific attributes in the plan as selected in the **Multi-Activity** property box, found in **Edit > Find Multiple Activities**. Select the desired attributes and click **Add to List**, then **Select**, **Hide** or **Highlight** objects in the list. Example: When resource leveling, select all activities relating to one resource, then select **Highlight All** to accentuate objects. To make changes to multiple activities (e.g., change color, create hammocks), select **Edit > Find Multiple Activities**.










Copying & Pasting Objects








To copy objects within a plan, select and copy the object to a specific gridline as prompted by NetPoint. To copy objects from another plan, preset the calendar of the destination plan to accommodate the dates of the copied objects using the copy icon  or right click to find the copy option..

Linking Objects

To link objects, use selection tool , hold **SHIFT** and select two objects to be linked, then select the link type. To select and link multiple objects, “box in” by dragging the cursor from an empty portion of the canvas to the items (that do not overlap on the timescale), then select **Auto Link FS Chain** . To modify link geometry, select the link, right click, and select **Change Link To**, then select new geometry. . **Note: To select a link with a diagonal portion, click horizontal or vertical portion.**

Icons

-  **Blank Page:** Opens a new, blank NetPoint Plan with a default calendar set at 6 months prior to and 12 months past the current start date
-  **Open Folder:** Selects and opens existing files
-  **Disk:** Saves files with a default name (i.e. NetPoint1) or new name to a desired location
-  **Cut:** Cuts selected object from the active planning surface.
-  **Copy to Clipboard:** Copies selected item(s)
-  **Paste from Clipboard:** Pastes copied object(s), including fully contained logic of an object.
-  **Print:** Opens the Print Options window.
-  **Undo:** Undoes last action or up to 15 previous actions.
-  **Object Select:** Selects objects on of the NetPoint canvas.

-  **V Link:** Creates a vertical link between selected objects
-  **H Link:** Creates horizontal link between selected objects
-  **H+V Link:** Creates horizontal, then vertical link between selected objects
-  **V+H Link:** Creates vertical, then horizontal link between selected objects
-  **VHV Link:** Creates vertical, then horizontal, then vertical link between selected objects
-  **HVH Link:** Creates a horizontal, then vertical, then horizontal link between objects
-  **VDV Link:** Draws a vertical, then a diagonal link between selected objects. *Note: To select a link with a diagonal quality, click horizontal or vertical portion.*



HDH Link: Draws a horizontal, then a diagonal link between selected activities, embeds, milestones, or benchmarks. *Note: To select a link with a diagonal quality, click the horizontal or vertical portion.*



Delete Link: Deletes the link between selected activities



Calendar Activity: Inserts calendar day activities; includes nonworking days and holidays. Activity data will calculate all days into duration.



Workday Activity: Inserts an activity that reduces holidays and non-workday from the duration... *Note: Start and end dates non-workdays as set by the project calendar are displayed in red.*



Print: Opens the **Print Options** window.



FS Chain: Creates finish to start relationships between all selected activities that do not overlap dates on the calendar.



Text Object: Inserts a text object on canvas where crosshairs are right clicked and the box is opened. Enter text using manual returns or ENTER to stack the text. Choose font, style, size, color, and effects. Move text graphically by clicking on Text Box and dragging to chosen location. You *may move the text box by right clicking and dragging to a desired location.*



Start Milestone: Inserts **Start-of-the-Day** milestone on canvas where mouse crosshairs is right clicked. Opens **Milestone Event Properties** box to enter milestone description, date, size, and tail length. Also allows option to display and actualize milestone date as well as add a NLT constraint date.



Finished Milestone: Inserts **Finish-of-the-Day** milestone on canvas where mouse crosshairs is right clicked. Opens **Milestone Event Properties** box to enter milestone description, date, size, and tail length. Also allows option to display and actualize milestone date as well as add a NET constraint date.



Start Benchmark: Inserts **Start-of-the-Day** benchmark on canvas where mouse is clicked. Open Benchmark Properties box to enter benchmark description and modify displayed data.



Finish Benchmark: Inserts **Finish-of-the-Day** benchmark on canvas where mouse is clicked. Open **Benchmark Properties** box to enter benchmark description and modify displayed data



Start Embed Node: Inserts **Start Embed** on a successor activity where mouse is clicked. A **Start Embed** allows connection from the start embed (offset to start) to the start of a successor activity, displaying offset to the start in accordance with activity's calendar or workday status. Once placed, the property box opens to allow modification of data. *Note: For Start-to-start relationship - a Start Embed must be in predecessor activity and connect to the start of a successor activity.*



Finish Embed Node: Inserts a **Finish Embed** on a successor activity where mouse is clicked. A **Finish Embed** allows connection from the finish node of a predecessor activity to the finish embed of a successor activity (displaying offset to the finish in accordance with activity's calendar or workday status). Once placed, the property box opens to allow modification of data. *Note: For Finish-to-Finish relationship - a Finish Embed must be in successor activity and connect from the finish of a predecessor activity.*



Information Object: Inserts information object on canvas where mouse is clicked. iObjects are stored and recalled in an absolute or full file path (See iObject Storage section).



Note Field: Opens notepad to create notes attached to canvas. Double click to view. Notes are represented by notepad icon and cannot be printed.



Gestural Interface: Opens the **Gestural Interface** tool. This allows the user to use touch while working a schedule and greatly improve audience interaction and participation.



Zoom: Opens the **Zoom/Stretch** window to change display. Use scroll bars to view unseen canvas.



Logic Hold: Maintains logic relationships as the schedule is built. Deselect to work without the restraints of logic ties risking plan corruption. The default is **Logic Hold On**.



Resource Limit: Displays **Resource Limit** overages.



Project Attributes: Opens the **Project Attributes** window.



GPM: Automatically changes the planned dates to early dates. Save the baseline NetPoint plan prior to initiating changes in this mode. Click the canvas to initiate **Push to Early Dates**.



Help: Opens the NetPoint help website.

Menu Descriptions

FILE

New (CTRL+N): Opens a new plan with a default calendar of 6 months prior and 12 months after current date.

Open (CTRL+O): Opens existing NetPoint files.

Close: Closes the current plan with the option of saving.

Save (CTRL+S): Saves the open NetPoint plan using a default name or a name specified by the user.

Save As: Saves the NetPoint plan with a different name other than the default.

Print (CTRL+P): Opens printer property box to change printer, print size, number of copies, etc.

Print Setup: Determines the print size. *Note: The choice of page size will determine the permanent viewable area for print and display of the file.*

Print Tiling (1x1): Provides a custom print/canvas size feature that allows you to print plans larger than the set printing area by using multiple print pages distributed horizontally and vertically to maximum of 50H x 50W.

Recent File: Opens the most recent NetPoint plan.

Export/Import: Allows the export or import between MS Project Primavera 6.0, Microsoft Excel and Synchro. You may also export into an XML format for further data integration to xml supported programs.

Insert Image Files: Adds an image to be viewed on the planning surface.

Screen Capture: Has two options: 1) **Create Image of Schedule** - captures the entire schedule for copy and paste into another application or to be saved as a file or other format in pixel size, which can be changed in the initial image settings property box. 2) Set **Quick Capture Parameters** - allows a portion of the schedule to be copied, pasted or saved in another format by holding the **CTRL** key placing pointer at the corner of the area to be captured, right click the mouse, enclose the portion to be captured, keeping the **CTRL** key pressed, then release right click of mouse, then release the **CTRL** key. Image can be pasted in another application.

Exit: Closes the NetPoint program.

EDIT

Undo (CTRL+Z): Reverses up to 15 previous actions excluding **Zoom** and **Stretch**, **Page Setup**, and **Print Setup**.

Cut (CTRL+X): Removes or cuts selected items or a group of items. To select one item, click on the item using the **OBJECT SELECT** key. To select multiple items, click on a blank area of the canvas and drag the items, or click on one of the items, then click on the other desired items while holding down the **SHIFT** key. To unselect these items, click on a blank part of the canvas.

Copy (CTRL+C): Creates duplicates of selected items, including logic fully contained within the copied items.

Paste (CTRL+V): Inserts copied items from a NetPoint plan on same calendar dates on the gridline specified.
Note: If pasting to another plan, the calendar must be preset to accommodate the pasted items' timescale.

Delete (DEL): Deletes selected items by clicking **Edit > Delete** or by pressing the **DEL** key. Select items to be deleted by clicking on the item or by clicking on multiple items while holding down the **SHIFT** key.

Select All (CTRL+A): Selects all items in the calendar for changes, duplication or movement in the plan.

Find an Activity (CTRL+F): Matches numbers and letters exactly as entered into the search line. A list of potential matches appears for selection; the selected activity is highlighted in a yellow box.

Find Multiple Objects: Provides instructions for all **Find Multiple Activities** function, found in user manual for **Find Multiple Activities**.

Properties (ALT+ENTER): Opens the property box of a selected item.

VIEW

Toolbar: Displays toolbar only when this option is checked. To relocate **Toolbar**, right click on the area surrounding the icons; drag to the window edge and release right click.

Resource Key: Displays a key of resource(s) as a moveable object on the canvas. *Note: The resource key will not print on the canvas; instead it prints in the right hand corner of the title block.*

DISPLAY

Color: Provides a list of default NetPoint colors and the **Custom Color Palette** for custom color selection for noncritical activity bars, nodes, milestones, benchmarks and iObjects. Select object(s), choose from palette or **Define Custom Color** by clicking on **Font > Color > Custom Color**; click **OK** to apply selected color.

Background Color: Allows user to select a canvas background color from list or create a custom color.

Calendar Strip Color: Allows user to select a color from the basic color palette or define a custom color.

Title Block Color: Allows user to select a color from the basic color palette or create a defined custom color.

Text Size: Sets the default text size of all iObjects excluding information objects. *Note: Text size can be increased for ease of display, but may clash with other data. Generally, petite text is adequate for print.*

Text Size for Calendar Strip: Sets calendar strip font size.

Set Default for Text Objects and Note Field: Allows format of text boxes or Note Fields.

Set Default Attributes for New Activities: Allows format of subsequently added activities. Make selection, check **Apply** to implement changes, and select **OK** to exit box.

Restore Color: Restores entire plan back to full color if faded through **Find Multiple Activities**, etc.

Highlight Zero-Gap Chain: Highlights any activity with at least one zero gap relationship.

TOOLS

Line Up Activities: Places selected activities on the same horizontal line.

Auto Link FS Chain: Automatically links selected objects that do not overlap the timescale by **SHIFT**+click or by clicking on empty canvas and "boxing in" objects to be linked.

Set Properties for Selected Activities: Demonstrates global settings for selected objects on the canvas. Options include **Fade**, **Display Resource Profile**, **Change Resource Requirements**, **Actualize**, **Change Behavior or Logic Type**, etc. Also, noncritical activity bar color can be selected. If activity is critical, node colors are changed by selecting **Paint End Nodes Solid** and **Change Node Color**.

Resources: Resource instructions for **Definition**, **Assignment**, **Limits**, **Key**, and **Display Statistics** are found in user manual for **Resources**.

Set Password: Password needed to read prevents plan viewing entirely. **Password needed to modify** allows a plan to be opened and modified but does not allow changes to be saved. To change/remove password, select **No** in the first box, enter password, change settings, and resave plan. A red border displays when plan is password protected.

Create Hammock: Allows selected activities to be grouped into a summary activity that will reflect the changes of member activity dates. Select member activities on canvas, then select **Tools > Create Hammock;** choose grid number for hammock placement. Double or right click the hammock to input properties – **Name, ID Code, Filters, Display Features**, etc. More options are available by right clicking the hammock.

OPTIONS

Alignment Grid: Allows user to **Change Grid Spacing** for custom grid sizes (limits are specified) to enhance presentation of plan and reduce clashing of data. **Note: This may require increase of page size in print setup.** **Prompt Grid for Pasting** allows user to paste selected object in specified grid area. Note: To view grid numbers, **Show Grid Numbers** option must be checked.

Logic: Maintains relationship logic rules when active.

Holiday Line: When checked, displays holidays (H) and non-work days (N) calculated into workday durations on a red line at top of plan.

Safe Mode: Locks all objects to planned dates, allowing only vertical grid movement. To restore date flexibility, return to this menu and select **Exit Safe Mode**.

Show Grid Numbers: Displays the horizontal grid number to assist when pasting selected objects.

Show Old Data Dates: Graphically reveals all data dates and associated data.

Display Floats for Actualized Objects: Toggle option that displays floats and drifts for actualized activities.

Display Floats and Drifts As: Displays floats of actualized objects as 1) CPM - where all floats are zero and objects display in critical color; or 2) **Forensic** - to show GPM forensic float of the as-built condition when data was actualized; objects display in their historical color. Uncheck to hide **Floats and Drifts**.

Override Critical Color for Delays: Allows original/new color of delay activity to be revealed whether in the critical state of zero float or not.

SCHEDULE PROPERTIES

Schedule Attributes: Sets the plan timescale by defining start and end dates for the calendar. The default calendar is set 6 months prior and 12 months after the current date. By selecting **Use Calendar Dates**, the **Project Start** and **Project Completion** are set to match the calendar dates. The **Project Start** and **Project Completion** date flags are easily adjusted graphically by selecting and dragging to desired dates. The **Project Title** will display in the legend at the bottom of the plan. **Project Start/End** flags may be shown or hidden and the **Critical Threshold** may be set. The strip and sightline display options show grids on the canvas as selected. **Project Resources** and **Project Filters** are also defined through **Schedule Attributes**. Detailed instructions are found in user manual.

Working Calendar: Defines holidays defined within the current country setting and allows custom addition or deletion of nonworking days from calendar. Type directly into date boxes or use drop-down arrows to use pop-up calendar. Modify workweek by selecting **Change Work Week**. To change country calendars, select **Change Country** and modify as described above.

WINDOW

Cascade: Reveals current open files.

Tile: Arranges separate, opened plans actively on one screen.

HELP

About PMA NetPoint: Provides general information (e.g., copyright and the [www.pmatechnologies](http://www.pmatechnologies.com) link).

Show NetPoint User Guide: Links to user manual (updated regularly by PMA Technologies).

NetPoint FAQ: Posts questions to NetPoint Customer Support. (FAQ at www.pmatechnologies.com/netpoint_support.htm)

OPTIONS AVAILABLE ONLY THROUGH RIGHT CLICK ON EMPTY CANVAS

Set This Date As: Places **Project Start**, **Project Finish**, **Data Date**, or **New Data Date** on empty canvas by clicking crosshairs pointer.

Shade: Creates a highlighted area on canvas. Select **Shade** either horizontal or vertical, right click on chart at Y-position to begin shade, then select color from menu. Left click on chart at desired Y-position of shade. Shade position may be modified at anytime by right clicking in shade and selecting **Switch to Shade-Resize Mode**. Color can be changed at any time by right clicking in shade and selecting **Shade > Change Color**. **Switch to Shade Resize Mode:** Right click within shade to be resized. Select **Switch to Shade-Resize Mode** to display handles on shade borders; use handles to resize shade. After resizing, right click anywhere on chart and select **Shade- > Remove Shade-Resize Mode**.

Display Statistics: Displays overall schedule data such as activity, link count, durations, etc.

Set Current Date As Target: Allows user to set multiple target dates in a plan. Compare to current dates by right clicking on empty canvas select **Set Current Date as Target #...** ; repeat for multiple targets.

Compare Target Dates: Creates a list by right clicking on **Empty Canvas > Compare Target Dates** or creates printable report via **File > Export/Import > Export to Excel > Targets**. *Note: The target data for any activity is highlighted yellow if the date or duration is different than the current information for that activity.*

Edit Title Box: Allows data entry directly into **Title Box**.

Global Actualize: After data date is entered, allows pending selected activities to be actualized at current planned dates or **Slid to Data Date** by selecting pending activities. Update activities individually if planned dates do not match actual revised dates.

Reset Custom Display to Default: Allows user to reset custom displayed data globally or groups of selected activities or links.

iObject Storage

iObjects are stored and recalled in an absolute or full file path, which means the complete file path is used for storage and retrieval of objects. The path may vary depending on how your system is set up and on what operating system you use. For example, if your user name is jsmith, running Vista, and you want to reference photo xyz.jpg on your desktop, the full or absolute path to open the file would be:

C:\users\jsmith\desktop\xyz.jpg

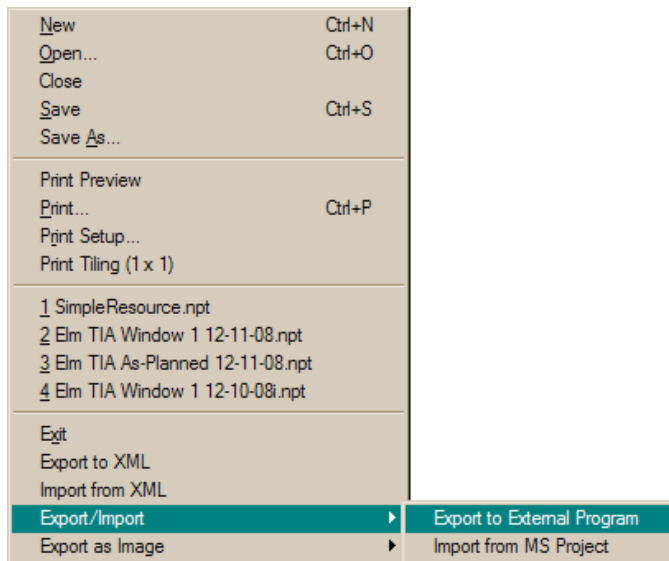
Note: This works if you are the only person using this iObject on your computer. However, a better practice is to create a standard folder just below the C:\ directory for all iObjects (e.g., C:\iobjects\). If you store all iObject files in one directory, it will be easier to move your plans from computer to computer.

Importing/Exporting to External Programs

Basic and Critical Primavera 6.0 Differences

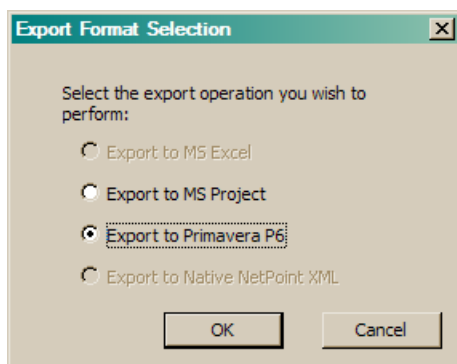
Note: This procedure assumes that Primavera P6, Java JDK or JRE, and Primavera Integration API have already been installed on the system.

Exporting to Primavera



Open the schedule in NetPoint for export.

Choose **Export/Import** from the **File** menu, then select **Export to External Program**:



Next choose **Export to Primavera P6**:

Select options for P6 export.

Log in (details below).

Name the project (details below).

Logging In

The login name and password **MUST** be a valid P6 program login. In addition, administrator privileges **are required** to allow creation of global resources and global information.

Naming the Project

The project name will uniquely identify this schedule within P6. If the name is not unique, the transfer process will make the name unique by appending a numerical suffix of the form (-1, -2 ... -100). *Although P6 allows*

project names of up to 20 characters, the transfer process imposes a limit of 14 characters to allow the addition of suffixes to ensure unique project and resource node names.

Project Resource Names

A parent resource node for the project resources is created with a -P appended to the project name. All resources associated with the project are children of this node.

Critical Differences in Data Transfer between Primavera and NetPoint for Filters, Resources, Constraints, and Hammocks

Several scheduling concepts are implemented differently in P6 and NetPoint. In these cases, it is necessary to map between these implementations when transferring data between the programs.

FILTERS

Filter codes used in NetPoint are imported into P6 as Activity Codes. NetPoint allows multiple filter values for the same category to be associated with a given activity. P6 allows only one value per category per activity. **To avoid conflicts when importing filters, the transfer process will only export filter categories that are NOT multi-valued.**

RESOURCES – DAILY OR TOTAL

In NetPoint, each resource is defined as having "per day" or "per activity" allocation. It is therefore possible to have a single activity that is associated with both resources. In P6, the "per day" or "per activity" distinction occurs on an activity-by-activity basis. This means that NetPoint activities that have both resource allocations cannot be transferred without some loss of information.

Enter Options for P6 Transfer

P6 Login Name (must have admin privileges):
admin

P6 Login Password:
admin

P6 Project Name (max 14 characters):
TestProject

Export Filters as P6 Activity Codes

Export Resources Explain

As defined in NetPoint

Export mixed mode as "per day"

Export mixed mode as "per activity"

Ask for each mixed resource activity

Convert to "per day"

Convert to "per activity"

OK Cancel

NetPoint offers several ways to handle the discrepancy:

- Convert all resources to "per day"
- Convert all resource to "per activity"
- Attempt to match the NetPoint resource type:
- If all resources associated with an activity are the same type, use that type.
- If resource types are mixed, three sub options are available:
 - Treat all as "per activity"
 - Treat all as "per day"
 - Ask the user

CONSTRAINTS

NetPoint supports only two constraint types:

1. Start No Earlier Than (NET)
2. Finish No Later Than (NLT)

P6 supports nine constraint types:

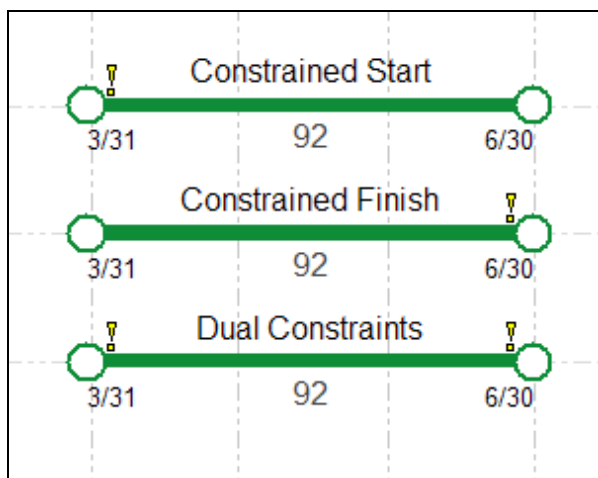
1. As Late As Possible
2. Finish On
3. Finish On Or After
4. Finish On Or Before
5. Mandatory Finish
6. Mandatory Start
7. Start On
8. Start On Or After
9. Start On Or Before

Up to two constraints can be applied to a given P6 activity. If both are applied, one is considered **Primary**, the other **Secondary**.

When exporting an activity with only one constraint from NetPoint to P6, it is exported as the **Primary** constraint. **If both NET and NLT constraints are found, the NET constraint is always considered Primary and the NLT Secondary.**

When importing an activity from P6 to NetPoint, only **Start On Or Before** and **Finish On Or After** constraints are imported. **ALL OTHER CONSTRAINT TYPES ARE IGNORED.**

Example: Consider the following NetPoint schedule fragment:



The information for the previous schedule would appear in P6 as follows:

Activity Name	Primary Constraint Date	Secondary Constraint Date	Start	Finish
Constrained Start	01-Mar-09 08:00 AM		31-Mar-09 08:00 AM*	30-Jun-09 05:00 PM
Constrained Finish	31-Jul-09 05:00 PM		31-Mar-09 08:00 AM	30-Jun-09 05:00 PM*
Dual Constraints	01-Mar-09 08:00 AM	31-Jul-09 05:00 PM	31-Mar-09 08:00 AM*	30-Jun-09 05:00 PM*

If only one constraint is applied to an activity, it is shown in the **Primary Constraint Date** column. If there are two constraints applied, the **Secondary Constraint Date** column is populated. If a start constraint date is used, an asterisk appears after the date in the **Start** column. If a finish constraint date is used, the asterisk appears in the **Finish** column.

Detailed information about a constraint is shown under the **Status** tab of the **Activity Details** panel, as below:

Constraints			
Primary	Start On or After	Secondary	< None >
Date	01-Mar-09 08:00 AM	Date	

HAMMOCKS

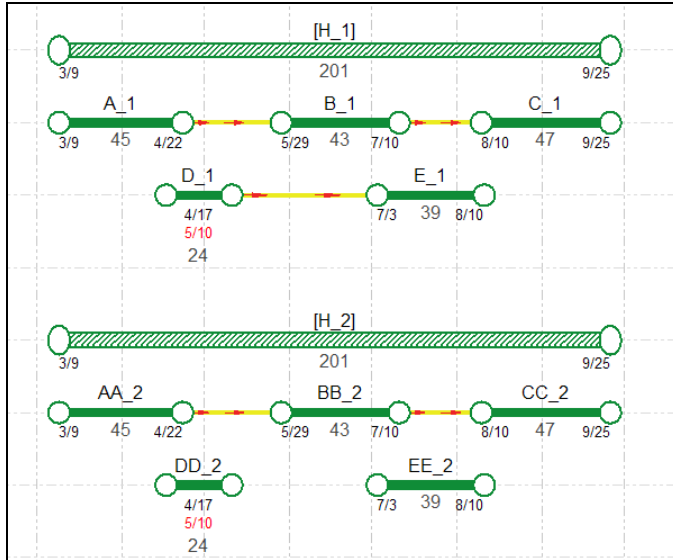
NetPoint Hammocks:

- May contain ONLY activities
- May NOT be linked to other objects
- Consist of a list of contained activities, without regard to any of the relationships (links) between the activities.

P6 Hammocks:

- May contain milestones and other non-activity objects.
- May be linked to other objects, including other hammocks
- Are defined by all chains of objects that begin with an object linked SS (either as predecessor or successor) to start of the hammock and end with an object linked FF (either as a predecessor or successor). The hammock activity in P6 MUST have an activity type of Level of Effort (LOE).

Consider the following NetPoint schedule example:



Each hammock contains five activities. In NetPoint, the start of hammock H_1 is the earlier start of any of the activities in the hammock (A_1, B_1, C_1, D_1, E_1). In P6, the start of the hammock is the earliest start of any activity at the beginning of a chain. In H_1, this would be A_1 and D_1. In H_2, this would be AA_2, DD_2 and EE_2.

A NetPoint hammock translates to a P6 Level of Effort activity. For the NetPoint schedule shown above, this would translate as follows:

Activity ID	Predecessors	Successors	Original duration	Start	Finish
D_1		H_1, E_1	24.0d	28-Oct-08 04:00 PM	21-Nov-08 04:00 PM
DD_2	H_2	H_2	24.0d	28-Oct-08 04:00 PM	21-Nov-08 04:00 PM
E_1	H_1, D_1	H_2	39.0d	21-Nov-08 04:00 PM	30-Dec-08 04:00 PM
EE_2	H_2	H_2	39.0d	28-Oct-08 04:00 PM	06-Dec-08 04:00 PM
B_1	A_1	C_1	43.0d	12-Dec-08 04:00 PM	24-Jan-09 04:00 PM
BB_2	AA_2	CC_2	43.0d	12-Dec-08 04:00 PM	24-Jan-09 04:00 PM
A_1		H_1, B_1	45.0d	28-Oct-08 04:00 PM	12-Dec-08 04:00 PM
AA_2		H_2, BB_2	45.0d	28-Oct-08 04:00 PM	12-Dec-08 04:00 PM
C_1	H_1, B_1		47.0d	24-Jan-09 04:00 PM	12-Mar-09 04:00 PM
CC_2	H_2, BB_2		47.0d	24-Jan-09 04:00 PM	12-Mar-09 04:00 PM
H_1	D_1, A_1	E_1, C_1	93.0d	28-Oct-08 04:00 PM	12-Mar-09 04:00 PM
H_2	AA_2, EE_2, DD_2	CC_2, EE_2, DD_2	93.0d	28-Oct-08 04:00 PM	12-Mar-09 04:00 PM

Notice the predecessor and successor relationships of the hammocks. P6 hammocks contain chains of activities. The first activity in a chain is linked to the hammock via an SS relationship, while the last activity in a chain is linked via an FF relationship. Notice that hammock H_1 contains two chains, while H_2 contains three (these hammocks would be equal in NetPoint).