NetPoint+GPM
CONFERENCE

May 8, 2020



Making NetPoint & P6 Work Together

Understanding the intricacies, to identify best processes

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PMA Consultants LLC

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AGENDA

- The Bird's Eye View
- Common Scenarios
- Export to P6 Adding Detail
- Import from P6 What-if Analysis
- Import & Export Round Trip
- Import from P6 Summarization/ Reporting





MEET THE PRESENTER

Vivek Puri, PhD, PMP

Dr. Vivek Puri has significant experience with planning and executing projects in both construction and information technology areas. Dr. Puri's recent work involves research and development relating to NetPoint, NetRisk, and Schedule MD, three innovative tools developed in-house by PMA. His doctoral work was in the area of simulation applications for construction planning.



THE BIRD'S-EYE VIEW

building a schedule

GPM vs CPM

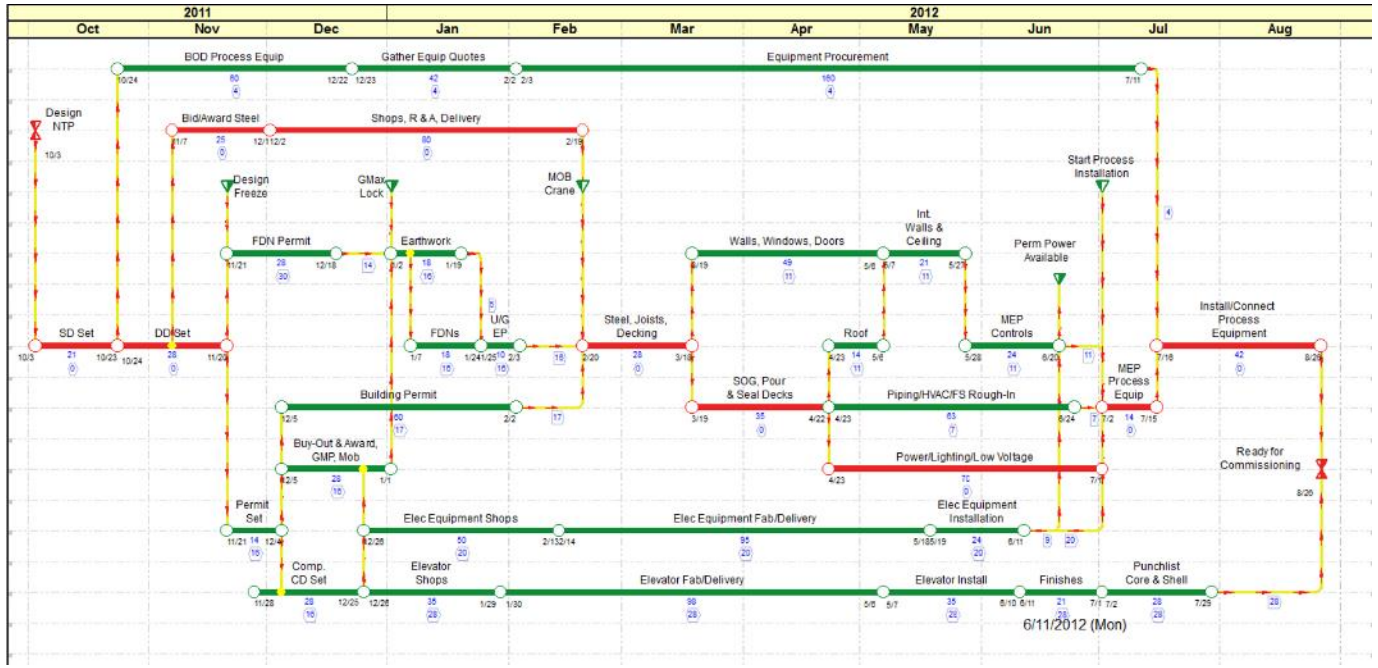
The Fundamental Differences

GPM (NetPoint)	CPM (P6 & others)
Planned Dates and Early/Late Dates	Early/Late Dates
Drift, Float & Total Float	Float & Total Float
Time-scaled LDM networks and AutoGRAPH	Gantt Charts (Waterfall layout)
Logic diagramming method (LDM) and embedded nodes	PDM
Milestones & **Benchmarks**	Milestones Only
SNET, FNLT; and FNE, SNL for milestones	Many Constraint Types
Resources for activities only; not for delays, hammocks, milestones, or benchmarks	Resources apply to Activities & LOEs
Single & multiple-value code assignments; use 1st behavior to maintain compatibility w/CPM tools	P6 and MSP Outline, single value codes
Hammocks do not support resources and cannot be empty	LOE's/Hammocks vary

BUILDING A DETAILED SCHEDULE

Exporting from NetPoint

Build Level 1 or 2 schedule/fragnets in NetPoint



Benefits

Collaborative planning

Interactive & real-time interface

Intuitive LDM display

Planned dates

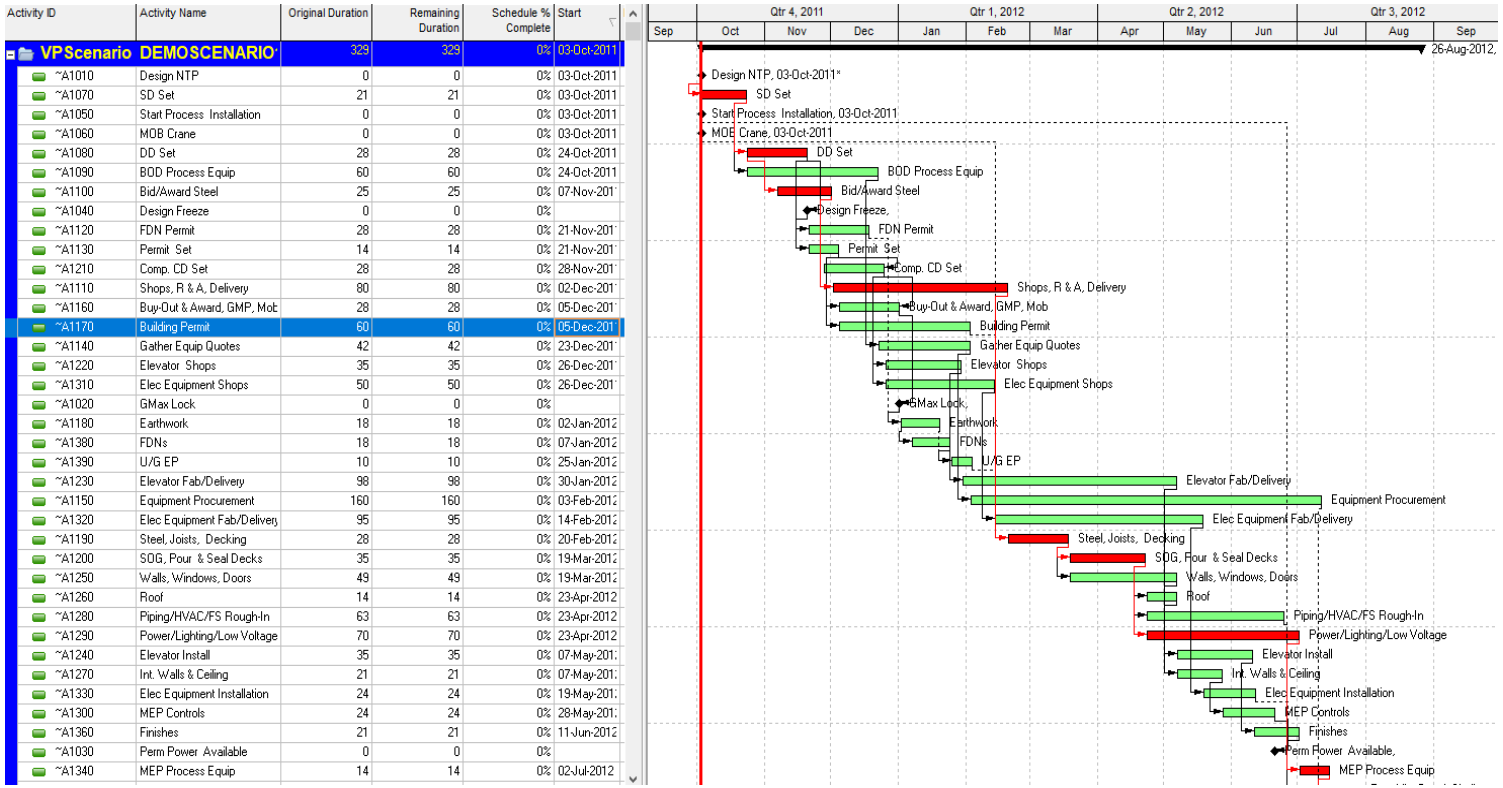
Self-healing

BUILDING A DETAILED SCHEDULE

Best Practices Before Export

P6 lacks support for:

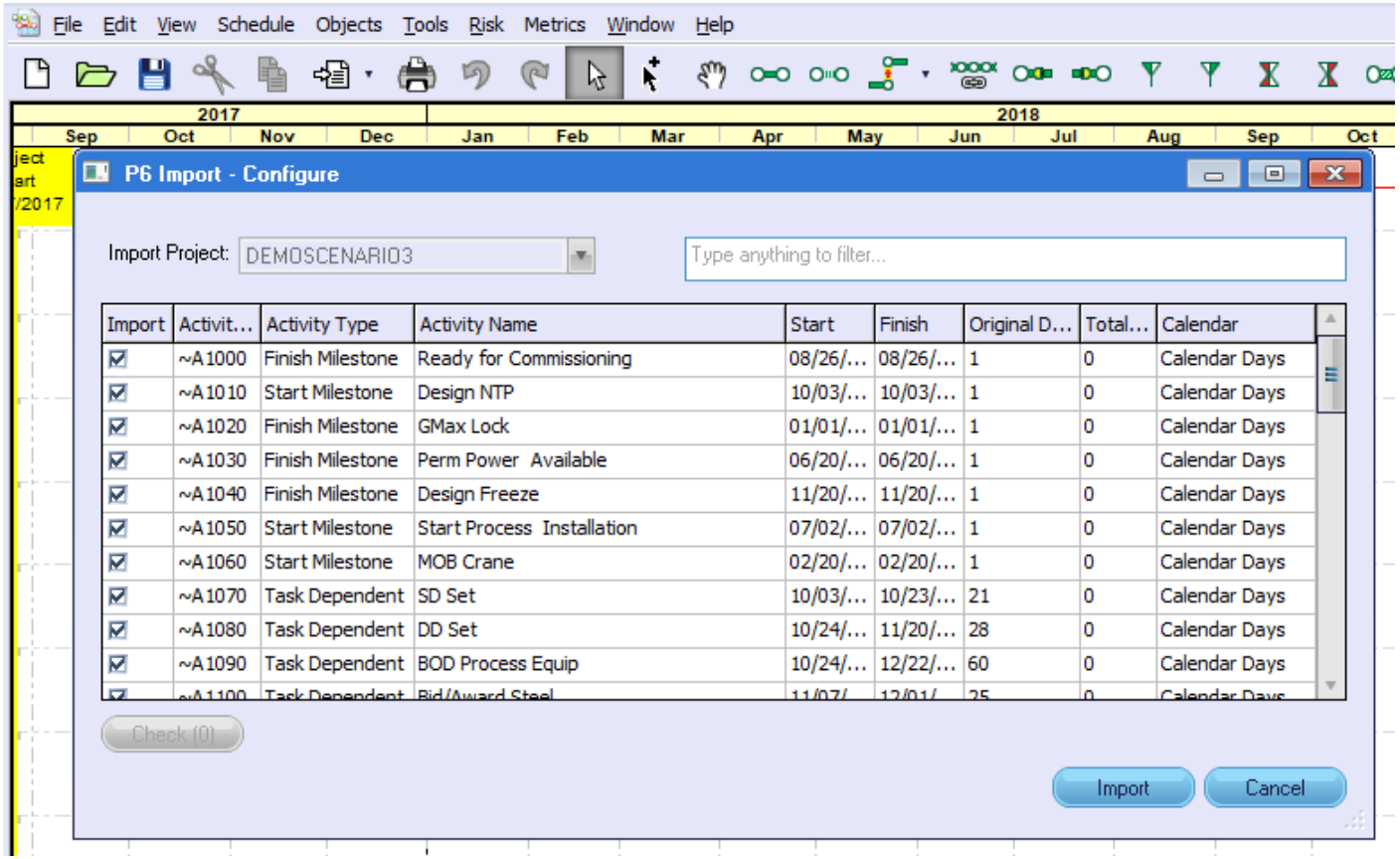
- Planned dates
- LDM Layout
- Multiple-assignment codes
- Mixed resource assignments
- Descriptions >120 characters
- Benchmarks
- Contract Dates
- Holiday Names & Repetitions



Activity ID	Activity Name	Original Duration	Remaining Duration	Schedule % Complete	Start
VPScenario	DEMOSCENARIO	329	329	0%	03-Oct-2011
^A1010	Design NTP	0	0	0%	03-Oct-2011
^A1070	SD Set	21	21	0%	03-Oct-2011
^A1050	Start Process Installation	0	0	0%	03-Oct-2011
^A1060	MOB Crane	0	0	0%	03-Oct-2011
^A1080	DD Set	28	28	0%	24-Oct-2011
^A1090	BOD Process Equip	60	60	0%	24-Oct-2011
^A1100	Bid/Award Steel	25	25	0%	07-Nov-201
^A1040	Design Freeze	0	0	0%	
^A1120	FDN Permit	28	28	0%	21-Nov-201
^A1130	Permit Set	14	14	0%	21-Nov-201
^A1210	Comp. CD Set	28	28	0%	28-Nov-201
^A1110	Shops, R & A, Delivery	80	80	0%	02-Dec-201
^A1160	Buy-Out & Award, GMP, Mob	28	28	0%	05-Dec-201
^A1170	Building Permit	60	60	0%	05-Dec-201
^A1140	Gather Equip Quotes	42	42	0%	23-Dec-201
^A1220	Elevator Shops	35	35	0%	26-Dec-201
^A1310	Elec Equipment Shops	50	50	0%	26-Dec-201
^A1020	GMax Lock	0	0	0%	
^A1180	Earthwork	18	18	0%	02-Jan-2012
^A1380	FDNs	18	18	0%	07-Jan-2012
^A1390	U/G EP	10	10	0%	25-Jan-2012
^A1230	Elevator Fab/Delivery	98	98	0%	30-Jan-2012
^A1150	Equipment Procurement	160	160	0%	03-Feb-2012
^A1320	Elec Equipment Fab/Delivery	95	95	0%	14-Feb-2012
^A1190	Steel, Joists, Decking	28	28	0%	20-Feb-2012
^A1200	SOG, Pour & Seal Decks	35	35	0%	19-Mar-2012
^A1250	Walls, Windows, Doors	49	49	0%	19-Mar-2012
^A1260	Roof	14	14	0%	23-Apr-2012
^A1280	Piping/HVAC/FS Rough-In	63	63	0%	23-Apr-2012
^A1290	Power/Lighting/Low Voltage	70	70	0%	23-Apr-2012
^A1240	Elevator Install	35	35	0%	07-May-201
^A1270	Int. Walls & Ceiling	21	21	0%	07-May-201
^A1330	Elec Equipment Installation	24	24	0%	19-May-201
^A1300	MEP Controls	24	24	0%	28-May-201
^A1360	Finishes	21	21	0%	11-Jun-2012
^A1030	Perm Power Available	0	0	0%	
^A1340	MEP Process Equip	14	14	0%	02-Jul-2012

Import existing schedule in P6

Entire schedule or select activities for import



WHAT-IF ANALYSIS

Importing from P6

What-if Analysis

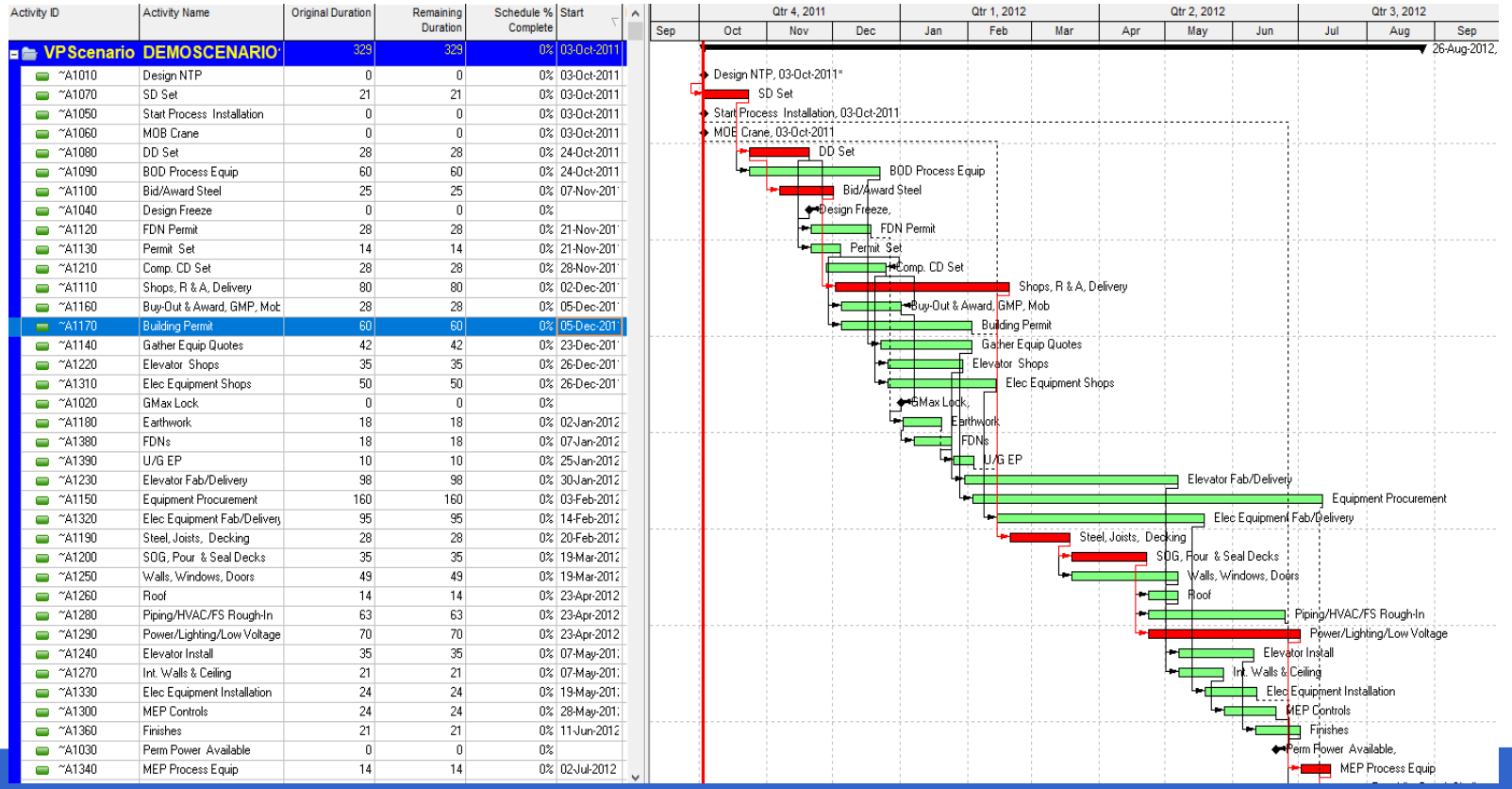
Stakeholder input

Real-time interaction

Evaluate alternatives

BUILDING A DETAILED SCHEDULE

Best Practices & Consideration Before Export



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NetPoint does not import:

- Workday shifts
- Calendar exceptions
- Some P6 Constraints
- Resource Calendars
- Negative lags for non-FS links
- Activities with zero durations
- WBS Summary activities
- User-defined fields

EXPORT TO P6 – ROUND TRIP

Two Alternative Scenarios

Non-supported information is ignored/lost on each import/export

Initial Project in NetPoint

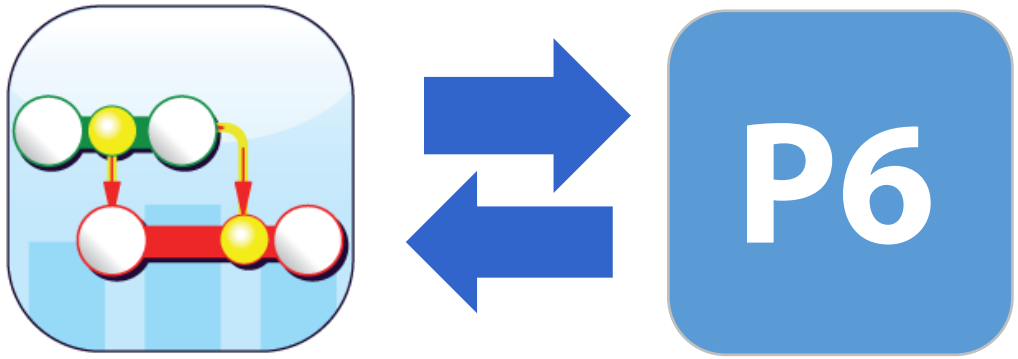
- Canvas locations maintained for existing objects
- After one visit to P6, Object ID's allow updating

Initial Project in P6

- No canvas location information
- Object IDs allow updating
- Non-supported information is ignored/lost on each import/export

EXPORT TO P6 – ROUND TRIP

Common Reasons for Round-trip



Revisions

- What-if analysis
- Collaborative and interactive planning sessions

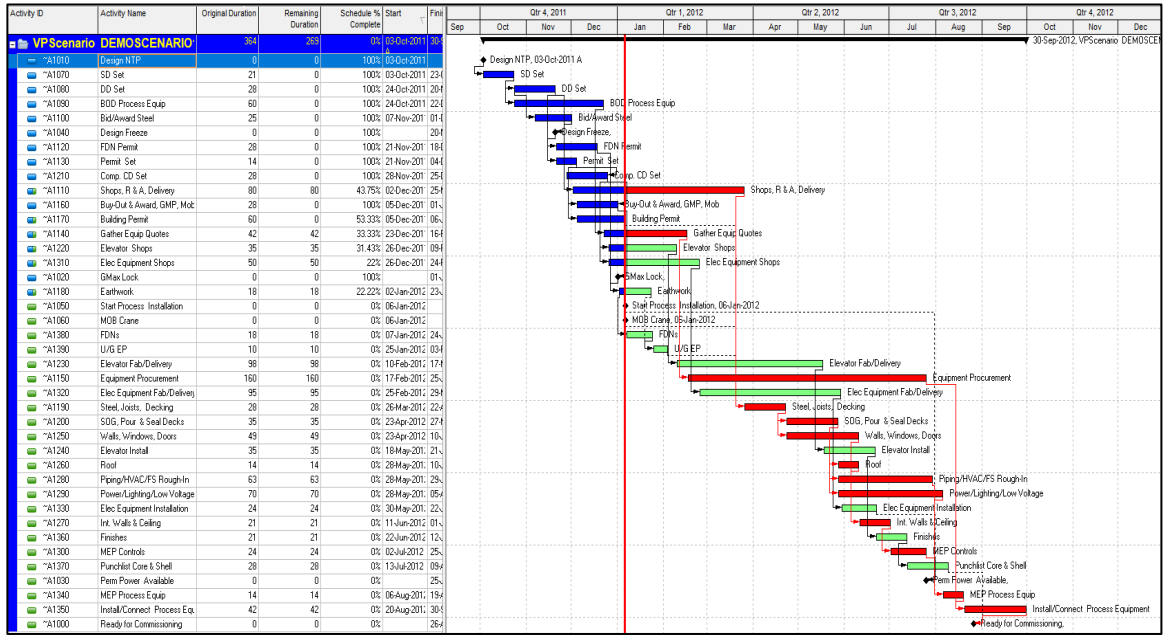
Progress Updates

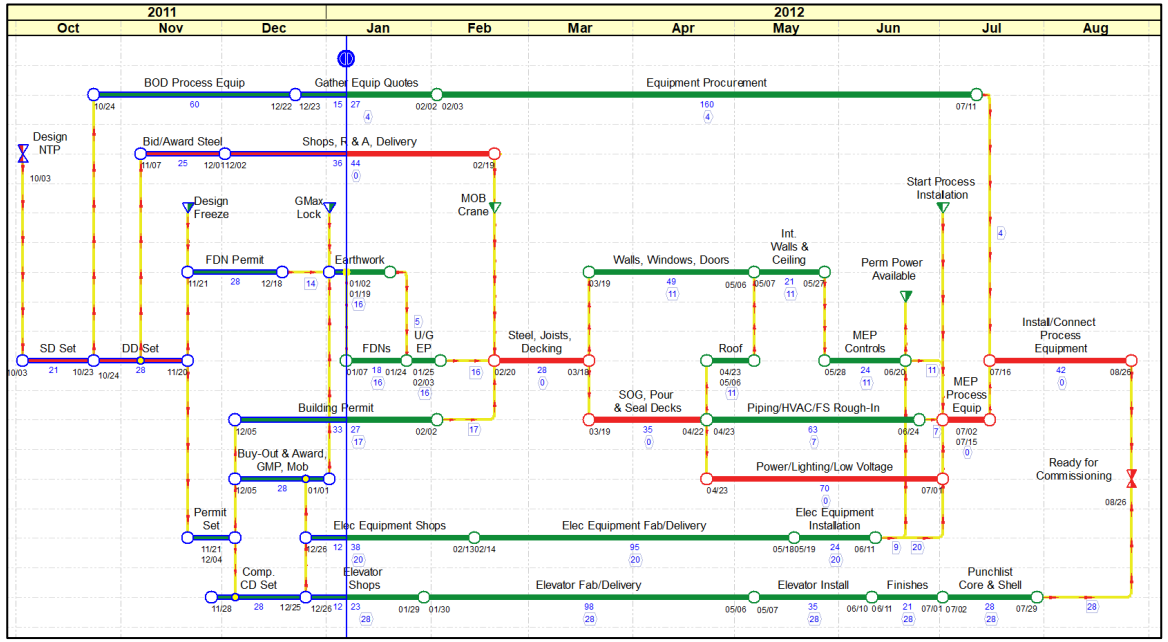
- Summary & reporting

IMPORT FROM P6

Summarization or Reporting

- Develop periodic reports or schedule summary
- Currently not directly supported





IMPORT FROM P6 – SUMMARIZATION OR REPORTING

Workaround alternatives for quick reporting

*Use an Excel file as intermediary, **or***

Export from P6 to Excel. Use filters.

Import the Excel file into NetPoint. Use formulas to summarize.

Use round trip update to retain positions

Project must have been created/updated from **NetPoint** at least once

Export to XER

On **Import**, filter objects to import

IMPORT FROM P6: SUMMARIZATION OR REPORTING

Workaround alternatives for quick reporting

Use an Excel file as intermediary, or

- Export from P6 to Excel. Use filters.
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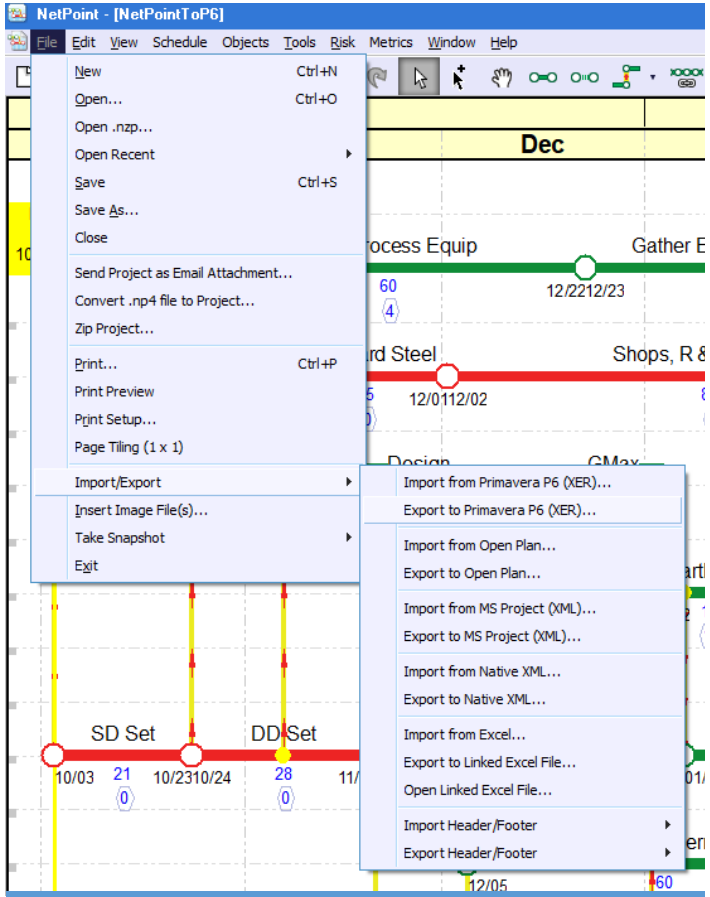
Use round trip update to retain positions

- Project must have been created/updated from NetPoint at least once
- Export to XER
- On Import, filter objects to import

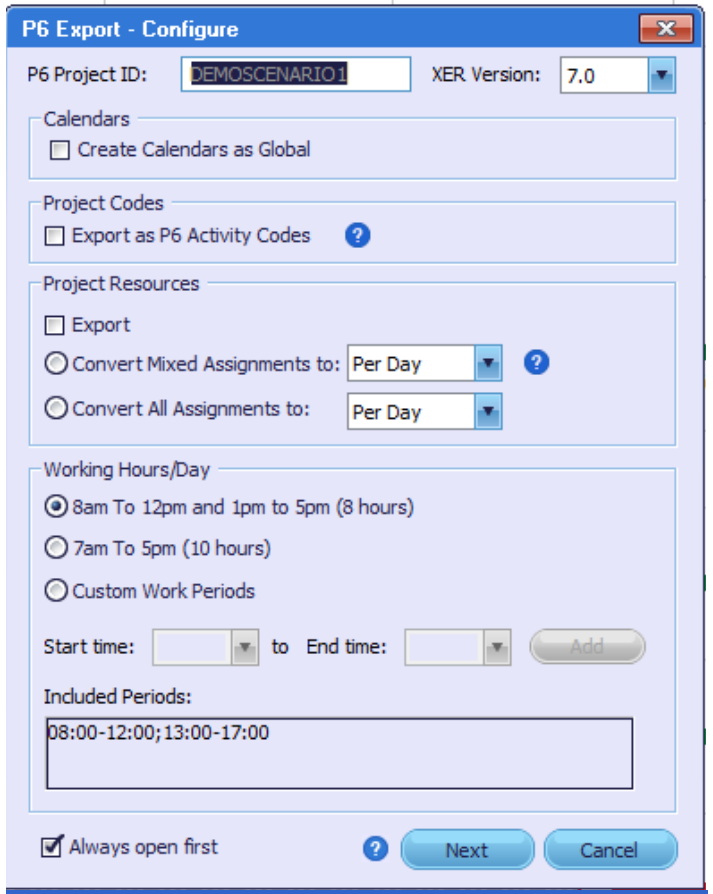
STEPS USING EXCEL REPORT

1. Open Project in P6
2. Export from P6 to Excel (or just copy and paste). Use filters to control what is exported.
3. IF summarizing for the first time
   a. Create another sheet and use formulas to summarize data from P6 export
   b. Import the new sheet in to NetPoint
   c. Manually layout objects in NetPoint
   d. Manually update the excel file to add grid numbers, colors, etc. for the objects.
   e. Retain this excel file for later.
4. For subsequent updates
   a. Update the P6 data in the excel file created on first summarization
   b. Import the file in to NetPoint

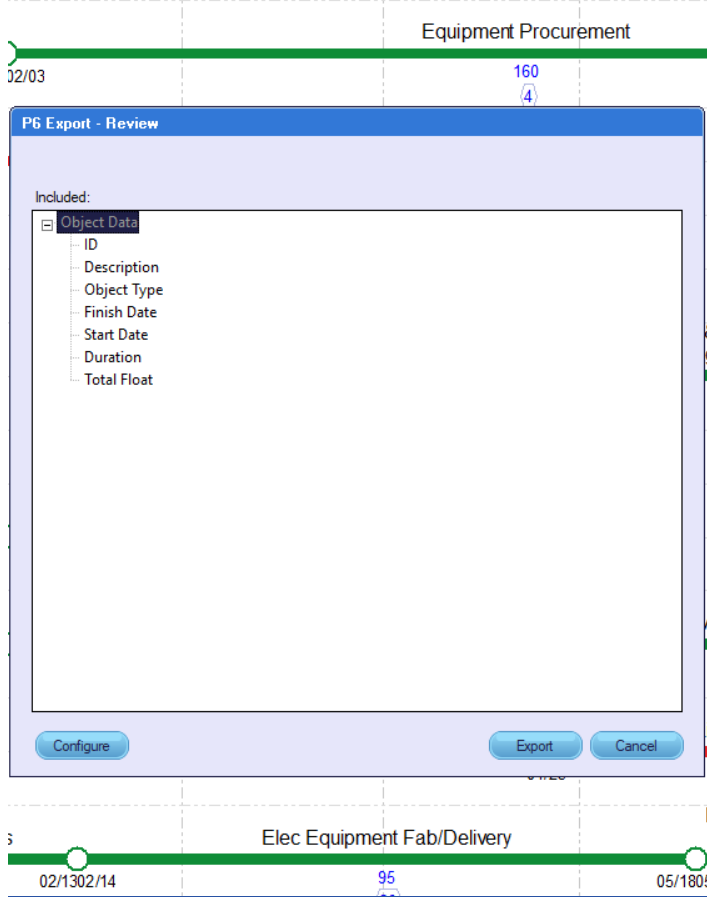
EXPORTING TO P6



File Menu > Export to Primavera P6 (XER)…

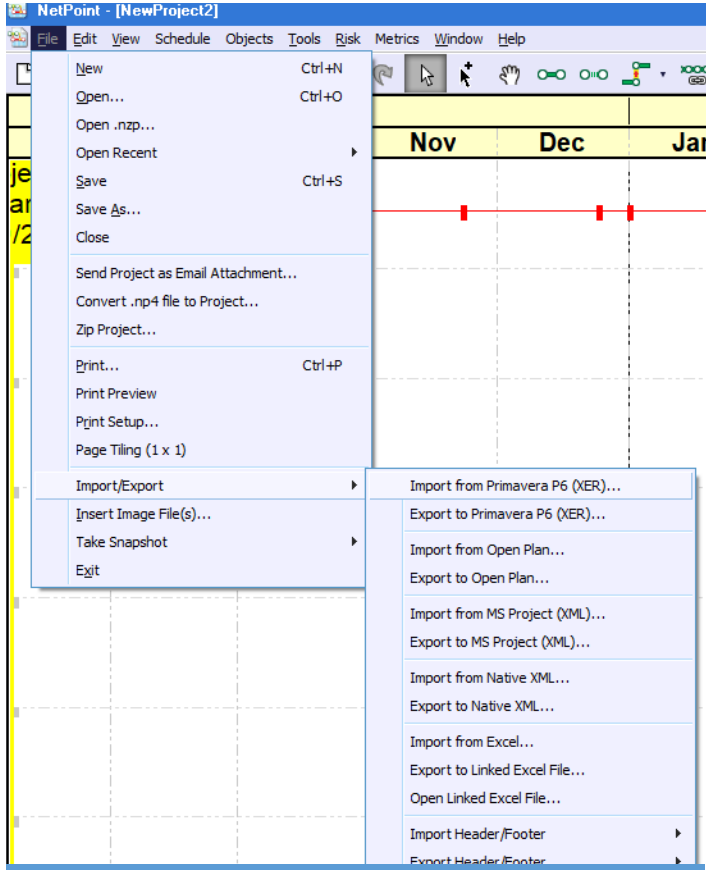


Export configuration

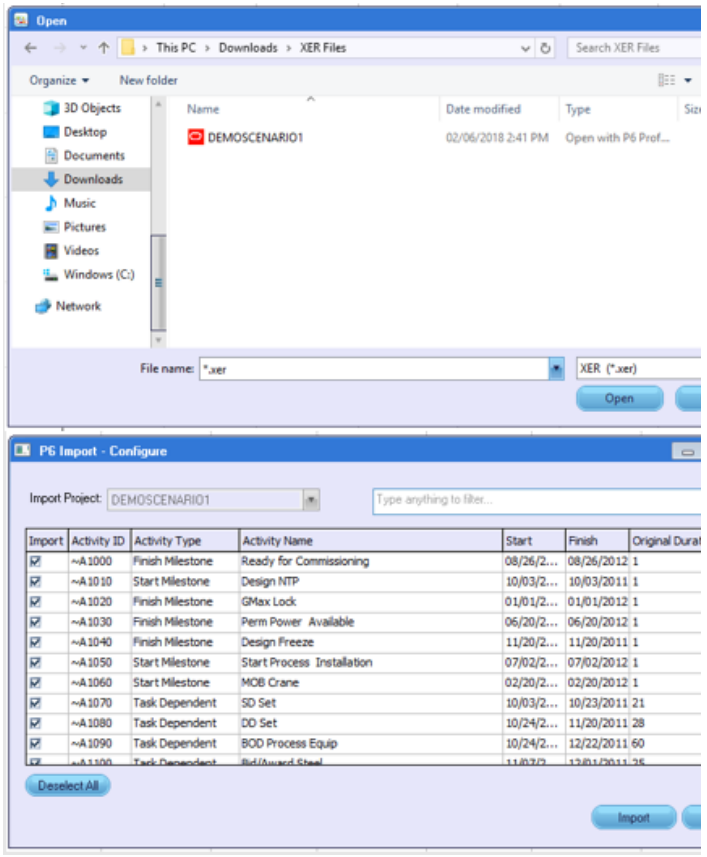


Review & Export
Saves export as XER file

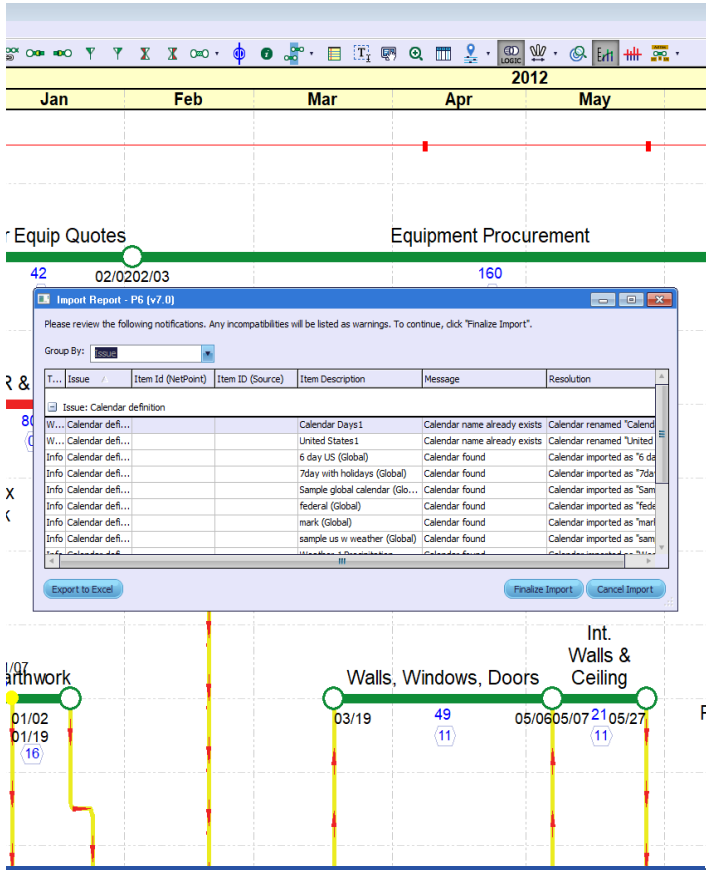
IMPORTING FROM P6



File Menu > Import from Primavera P6 (XER)…



Open & Configure



Review & Finalize



Questions?

thank you for joining us