

OPDEC Network Trace Tool Version 2016



Summary: The OPDEC Network Trace tool allows a user to easily identify all of the activities leading up to one or more points in the schedule. This is used by planners to ensure that tasks are linked via logic (predecessor / successor) links to another milestone or task in the schedule. The user identifies an activity or milestone (or multiples) and the tool identifies all predecessors to that point or points. The tool also has a reporting feature which identifies the existence redundant links within the schedule

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Microsoft Office

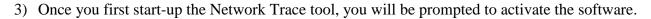
Proiect

Installation and Activation

Follow the instructions seen while running the installation executable file NetworkTrace2013.exe.

Requirements:

- Microsoft Project 2003-2016 (32-bit versions only)
- Microsoft Windows 7/8/10
- 1) Open Microsoft Project
- 2) Click on "Network Trace" in the OPDEC toolbar (Figure 1)





4) (Figure 2). You may choose the "Activate Later" button for up to 30 days before the software is disabled.

OPDEC Network Trace Ac	tivation	×		
Automatic Activation				
Acti	vate Now using your issued Serial Number			
- Manual Activation (obta	in key in step 1 below, enter in step	o 2 below)		
	Obtain Activation Key via the I	nternet		
Step 1 :	- 10 -			
	Obtain Activation Key via telephon	ne or E-mail		
Step 2 : Activation	Key:	Activate Now		
	Once you have an Activation Key above and then press the Activat			
To activate at a later time, pres activation is shown below.	s the Activate Later button, The number of	uses remaining without		
30 Days Remaining Wit	hout Activation.	Activate Later		

Figure 2



<u>Automatic Activation</u> - If your computer is connected to the Internet, then you can use this easy option.

- i. Click **Press this button to activate automatically**.
- ii. Enter your name, email, company name, and the serial number that you were issued. Then click OK. (Figure 2a)
- iii. If your firewall prevents this automated action, try using one of the Manual Activation procedures as described below.

2 OPDEC Network	Trace Activation
Please fill in the form b	elow and click OK.
Registration Info	rmation
Name:	
E-mail Address:	
Company Name:	
Serial Number:	
Unique Identifier:	C0M6VC1
	ОК

Figure 2a

- b. <u>Manual Internet Activation</u> If your computer is connected to the Internet, then you can manually retrieve an Activation Key from the OPDEC web site.
 - i. Click Obtain Activation Key via the Internet.
 - ii. Your internet browser will launch, automatically go to the OPDEC web site, and display your Activation Key.
 - iii. Enter the Activation Key in the Activation Key slot, as shown in Figure 2.
 - iv. Press Activate Now.
- c. <u>Manual Phone/Email Activation</u> If the two prior methods of activation are unsuccessful, click **Obtain Activation Key via telephone or E-mail**.
 - i. Send us an email (<u>support@opdec.com</u>) or contact our support desk for more help. (Figure 2b)

OPDEC Network Trace	Activation X
Support phone numb	er: 1-256-881-1038
Unique ID (you will be	e asked for it) :
COM	6VC1
<u>S</u> end email	Close

Figure 2b



Settings

- The settings for the tool are located can be accessed by clicking the "Tools" menu and then selecting the "Settings" option.
 - 1. General Settings
 - 1. <u>Major Events Field</u> Select the field where you are identifying the major events.
 - 2. <u>Trace Code Field</u> This location is updated with the trace code requested during the trace routines. This should be an empty text field in your project file
 - 2. Total Slack Trace Settings
 - 1. <u>Calculated Float Storage Field</u> This field is used to store the float for use in identifying the event that impacts the activity the most. This is utilized when using the "Total Slack Trace" option from the main screen. This should be an empty text field in your project file.
 - 2. <u>Event Target Date Field</u> This is the field specifying the date in which the event must complete by.
 - 3. <u>Text Field Not Used</u> This is simply any text field (other than those already defined in previous settings) that is not currently utilized in the schedule. This field is used to store information by the tool to complete the Total Slack trace process.

P Network Trace Settings	×
Profile	
Settings Profile: Default Profile	Select
General Settings	
Select the field Identifying the Major Events Tex	24
Trace Code Field	25 💌
Total Slack Trace Settings	
Text Field to Store Calculated Float	20 🔽
Select the Target Date field for the Event	eline Finish 📃
Select a Text field NOT used in your Project Tex	22 💌
Save Settings	

Figure 3



Profiles

• Starting in version 2011, multiple combinations of settings can be saved and retrieved. The currently selected profile name is displayed at the top of each form. To switch profiles, either select a profile name from the drop-down box on the main form or click the **Select** button on the Settings form.

To create a new profile: Enter the desired settings and select **Profile >> Save Profile As**

To delete a profile Select **Profile** >> **Delete**

📙 Save Setti	ngs Ctrl+S
🛒 Save Profil	e As Ctrl+A
🗙 Delete	Ctrl+D
🕼 Exit	Ctrl+E

Save Settings **performs the same function as the** Save **button**, Exit **closes the form without saving the changes**

Operation

- <u>Redundant Link Report</u> Redundant links are identified when one activity is directly and indirectly to another (see Figure 11 for an example). This process generates a report in Excel depicting the redundant links indentified in the schedule. There are 2 identification modes in evaluating a schedule for redundant links (Figure 4):
 - 1. <u>Limited</u> In this mode, a sampling of the schedule is performed in attempt to identify a maximum of 100 redundant activities.
 - 2. <u>Full</u> In this mode, the entire schedule is evaluated and a full report of all redundant links is provided. This mode of operation will take longer to process.

<u>Remove Links</u> – Checking this option will remove any identified redundant link if doing so does not change the dates of either activity.

	浡 Ne	etwork Tra	ice Tool				X	
	File	<u>R</u> eports	Tools Help					
	Settir	<u>हि R</u> edu	undant Links	►	%	<u>L</u> imited		Ctrl+L
l	т.	ace Forwa	ad /D a alt		Ŕ	<u>F</u> ull		Ctrl+F
l			к О Trace Forw	/ard		<u>R</u> emove Links		Ctrl+R
			F	igure	e 4			



_	ce Back O Trace Forward pend 🥅 Total Slack Trace			
race	Code Field Text29 - Major Event Task T	race	Retrie	eve
	Trace Code		Ad	d
ID	Trace Code	Finish		_
62	300 ORPB CDR	11/10/2	2016	
90	51B KP-TEST	1/16/20)17	E
100	500 TPA CDR	4/27/20)17	
44	200 HyDE PDR	11/7/20	11/7/2017	
72	400 TCA PDR	2/12/2018		
63	300 ORPB DEL	2/28/20	2/28/2018	
73	400 TCA CDR	9/12/2018		_
74	400 TCA ASSY	9/17/20)19	
75	400 TCA DEL	10/29/2	2019	
77	400 TCA IGN TEST	12/9/20)19	
103	500 TPA-ASSY1	12/19/2	2019	
78	400 TCA INJ TEST	1/9/202	20	Ŧ
	ace Back	Delet	e Seleci	ted

Figure 5

• Trace Forward/Back

- 1. <u>Trace Back and Trace Forward Toggle</u> Select the option button for the trace direction you wish to perform.
- 2. <u>Append</u> When not checked, the process codes each activity with the first (in date order) event supported.
- 3. <u>Trace Code Field</u> This is an option where you can specify a field that contains all the activities you want to trace from/to. Select that field and press "Retrieve" to auto populate the list with those items that you want to trace.
- 4. <u>ID and Trace Code</u> With these you can manually enter the activities you want to trace. Enter the activity ID and then a trace code of your choosing before selecting the 'Add' button. The "Delete" button is used to remove items from the list box.
- 5. Finally, select the "<u>Trace Back/Forward</u>" button to execute the tracing routine for the items entered.
- 6. When completed, the <u>Trace Code Field</u> can be used within the schedule to filter the activities identified by the trace. (Fig 6-13)



• Trace Between

- 1. Enter the starting and ending ID's of the activities you want to trace between.
- 2. Select the "Run Trace Between" button to execute the process.
- 3. When completed, the schedule will be filtered showing the user all activities that flow within the start ID and ending ID (Fig 12).
- Total Slack Trace
 - 1. The total slack trace option directs the tool to trace the actual total slack between predecessors.
 - 2. The total slack trace can only be run when doing a Trace Back.

Updates to the Network Trace tool are available through the 'Help' menu as an update becomes available.



Trace Back

Single Event

• Trace back identifying all predecessors from a single event

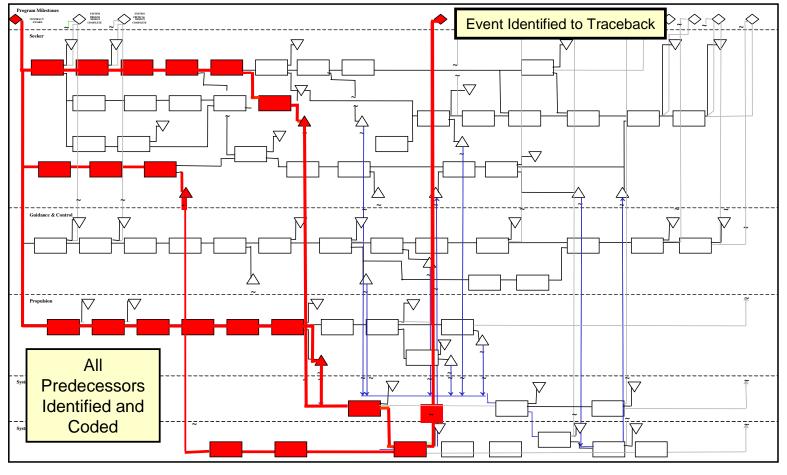


Figure 6



Multiple Events, First Reference

- Trace back identifying all predecessors from a multiple events
- Process codes each predecessor with the first (in date order) event supported
- Able to review tasks not coded to determine correct link to support an event and that all tasks support event milestones

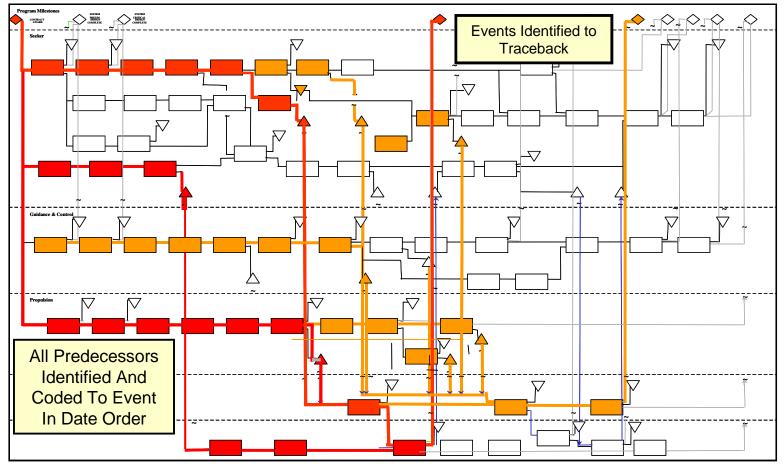


Figure 7



Multiple Events, All References

- Trace back identifying all predecessors from a multiple events
- Process codes each predecessor with the all events supported
- Able to review tasks not coded to determine correct link to support an event

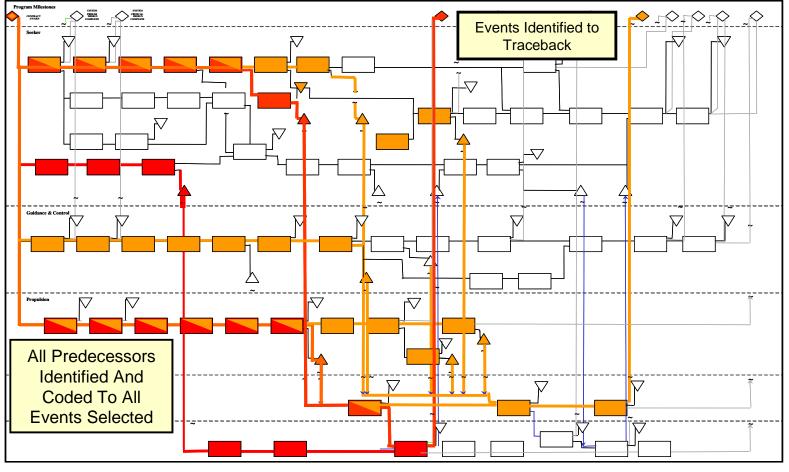


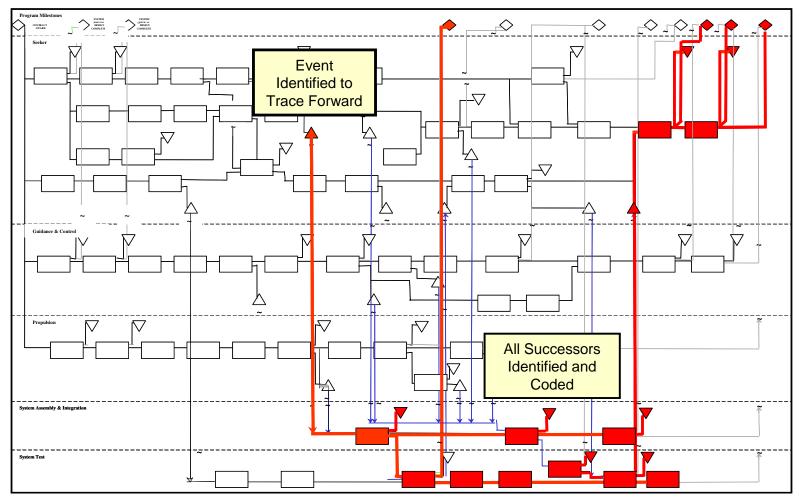
Figure 8



Trace Forward

Single Event

• Trace forward identifying all successors from a single event





Multiple Events, Last Reference

- Trace forward identifying all successors from a multiple events
- Process codes each successor with the first (in date order) event supported
- Able to review tasks not coded to determine correct link to support an event

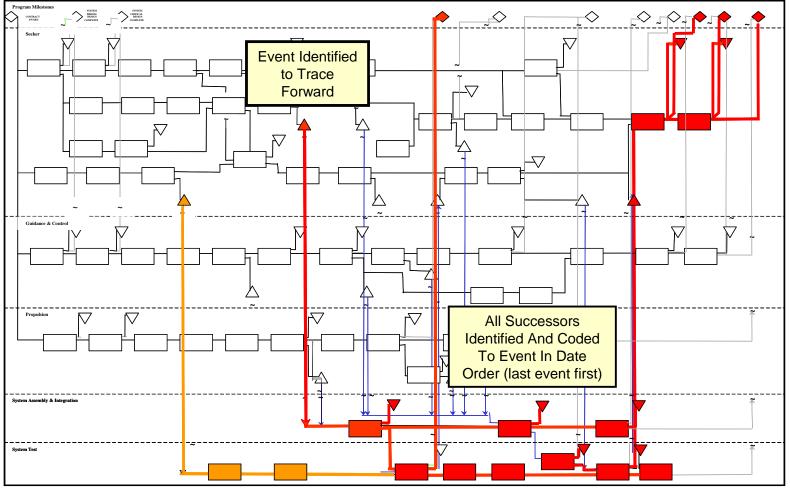


Figure 10



Multiple Events, All References

- Trace forward identifying all successors from a multiple events
- Process codes each successor with the all events supported (comma delimited)
- Able to review tasks not coded to determine correct link to support an event

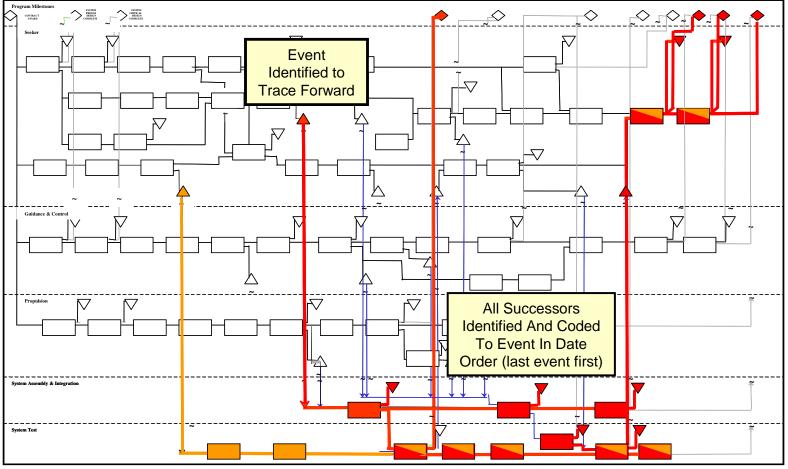


Figure 11



Trace Between

- Trace between to events, identifying all activities linked.
- Codes all the tasks and then invokes a filter to select those tasks

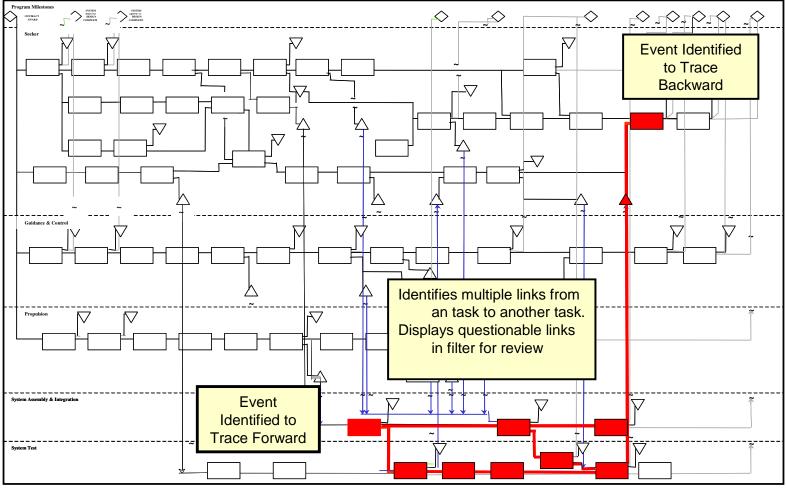


Figure 12



Redundant Links Report

- Identifies multiple links from a task to its immediate successor task(s).
- The reason for this is to eliminate confusing logic.
- The report identifies the task and the successor that has multiple links.
- From the example diagram below you can use the Trace Between to show the links and review and edit.

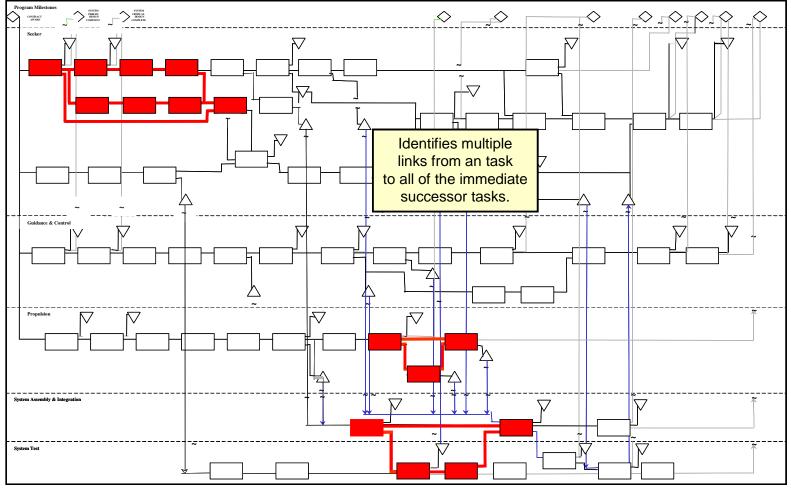


Figure 13



Revision History

- V2016.1.0
 - \circ The initial release of the 2016 version of the Network Trace Tool.
- V2016.2.0
 - Update the activation object associated with the Network Trace tool. The new object consistently identifies when it has access to the internet.
- V2016.3.0
 - Organized the interface to be more intuitive.
 - Fixed a bug causing the in tool help documentation to not launch.