

Vissim tutorial



Turns, Scenarios and assignment

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Turns

The screenshot displays the PTV Visum software interface for network editing. The main window is titled "Network editor (Edit: Turns)" and shows a map of a network with several turns highlighted in yellow and red. The left sidebar contains a tree view of the network elements, with "Turns" selected. Below the tree view is a "Quick view (Turns)" table with columns for FromNodeNo, ViaNodeNo, ToNodeNo, TypeNo, TSysSet, CapPrT, IOPrT, and ViaNodePrTADPr. The bottom status bar shows the instruction: "Turn: Select From-node, Via-node and To-node or double-click node." The system tray at the bottom right indicates the time is 15:21 on 3.2.2023.

Network: 2023TA_2_ver - PTV Visum Uni 2023 (SP 1-3) - [Network editor] - Remaining run time: 00:44:15

File Edit View Lists Filters Calculate Graphics Network Demand Scripts Windows Help Network editor Sign in

Global layout files Filter files

Network editor (Edit: Turns)

Network

- Nodes
- Links
- Turns
- Zones
- Connectors
- Main nodes
- Main turns
- Main zones
- Territories
- OD pairs
- Main OD pairs
- PrT paths
- POIs

Quick view (Turns)

FromNodeNo	ViaNodeNo	ToNodeNo	TypeNo	TSysSet	CapPrT	IOPrT	ViaNodePrTADPr

Turn: Select From-node, Via-node and To-node or double-click node.

1:53425 2743177.3167 8424717.1871

15:21 3.2.2023

Turns

Network: 2023TA_2.ver - PTVisum Uni 2023 (SP 1-3) - [Junction editor] - Remaining run time: 00:43:57

File Edit View Lists Filters Calculate Graphics Network Demand Scripts Windows Help Junction editor Sign in

Views

Junction editor (node 6)

Turns 9

	1	2	3	4	5	6	7	8	9
FromNodeNo	9	9	9	2	2	2	3	3	3
FromLinkNo	8	8	8	2	2	2	9	9	9
FromLinkToNodeOrientation	E	E	E	W	W	W	SW	SW	SW
ToLinkNo	2	9	8	9	8	2	8	2	9
ToLinkFromNodeOrientation	W	SW	E	SW	E	W	E	W	SW
ToNodeNo	2	3	3	9	3	9	2	9	2
TypeNo	2	3	4	1	2	4	1	3	4
TSysSet	B,C	B,C	...	B,C	B,C	...	B,C	B,C	...
CapPrT	99999	99999	99999	99999	99999	99999	99999	99999	99999
IOPrT	0min	0min	0min	0min	0min	0min	0min	0min	0min
VolPCUPrT(AP)	26	0	0	0	26	0	0	0	0
TCur_PrT(Sys(C))	0h	0h	100000h	0h	0h	100000h	0h	0h	100000h
TCur_PrT(Sys(T))	100000h	100000h	100000h	100000h	100000h	100000h	100000h	100000h	100000h
AddVal1	0	0	0	0	0	0	0	0	0
AddVal2	0	0	0	0	0	0	0	0	0
AddVal3	0	0	0	0	0	0	0	0	0

- Show also closed links
- Show also closed turns
- Show also turns of blocked links
- Signalization

Quick view (Turns)

Number: 1

FromNodeNo	9
ViaNodeNo	6
ToNodeNo	9
TypeNo	4
TSysSet	...
CapPrT	99999
IOPrT	0min
VolPCUPrT(AP)	n

Network editor Matrix editor Junction editor Procedure sequence

Messages

Last run: 03.02.2023 15:21:19, Read version

Time	Priority	Type	ID	Message text
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1:265261

15:22 3.2.2023

Turns

The screenshot shows the PTV Visum Junction editor interface. The main window displays a table for 'Turns 9' with columns for link numbers 1 through 9. A 'TSysSet' dialog box is open, showing a list of vehicle types: B Bus, C Car, M Metro, and T Truck. The 'C Car' option is selected. The dialog has 'Select none', 'Select all', 'OK', and 'Cancel' buttons.

Turns 9	1	2	3	4	5	6	7	8	9
FromNodeNo	9	9	9	2	2	2	3	3	3
FromLinkNo	8	8	8	2	2	2	9	9	9
FromLinkToNodeOrientation	E	E	E	W	W	W	SW	SW	SW
ToLinkNo	2	9	9						
ToLinkFromNodeOrientation	W	SW	E						
ToNodeNo	2	3	4						
TypeNo	2	3	4						
TSysSet	B,C	B,C	...						
CapPrT	99999	99999							
IOPrT	0min	0min							
VolPCUPrT(AP)	26	0							
VolPCUPrT(CurInt)									
TCur_PrTsys(C)	0h	0h	10						
TCur_PrTsys(T)	100000h	100000h	10						
AddVal1	0	0							
AddVal2	0	0	0	0	0	0	0	0	0
AddVal3	0	0	0	0	0	0	0	0	0

TSysSet dialog box options:

- B Bus
- C Car**
- M Metro
- T Truck

Buttons: Select none, Select all, OK, Cancel

Assignment and plotting

The screenshot displays the PTV Visum software interface. The main window is titled "Network: 2023TA_2.ver - PTV Visum Uni 2023 (SP 1-3) - [Procedure sequence] - Remaining run time: 00:42:49". The interface includes a menu bar, a toolbar, and several panels.

The "Procedure sequence" panel is the central focus, displaying a table with the following data:

	Active	Procedure	Reference ob
4			
1	<input type="checkbox"/>	Trip distribution	Strata Demand spl
2	<input type="checkbox"/>	Mode choice	All MO1 demand st
3	<input checked="" type="checkbox"/>	PrT assignment	C Car
4	<input checked="" type="checkbox"/>	PuT assignment	X PuT

The "Quick view (Turns)" panel shows the following details for "Number: 1":

FromNodeNo	9
ViaNodeNo	6
ToNodeNo	3
TypeNo	3
TSysSet	B,C
CapPrT	99999
ISPrT	0min
MinCapPrTADP	n

The "Messages" panel shows the last run information: "Last run: 03.02.2023 15:21:19, Read version". Below this is a table with columns: Time, Priority, Type, ID, and Message text.

The Windows taskbar at the bottom shows the date and time as 15:23 on 3.2.2023.

Assignment and plotting

Network: 2023TA_2.ver - PTV Visum Uni 2023 (SP 1-3) - [Procedure sequence] - Remaining run time: 00:42:40

File Edit View Lists Filters Calculate Graphics Network Demand Scripts Windows Help Procedure sequence

Global layout files Filter files

Network

- Nodes 4
- Links 1
- Turns 2
- Zones 3
- Connectors 4
- Main nodes
- Main turns
- Main zones
- Territories
- OD pairs
- Main OD pairs
- PrT paths
- POIs

Procedure

- Assignments
 - Delete assignment results
 - PuT assignment
 - PuT assignment
 - Connection import
 - Route import
 - Extended route import
 - Set signal programs
 - Update impedances at node
 - Signal cycle and split optimization
 - Network-wide signal optimization
 - Assignment analysis
 - Pseudo Dynamic Volumes (PDV)
- Demand model
- Multimodal
- PuT analyses
- PuT passenger surveys
- Matrices
- AddIn
- Miscellaneous

Procedure	Reference ob
Trip distribution	Strata Demand split
Mode choice	All MO1 demand split
PrT assignment	C Car
PuT assignment	X PuT

Quick view (Turns)

Number: 1	
FromNodeNo	9
ViaNodeNo	6
ToNodeNo	3
TypeNo	3
TSysSet	B,C
CapPrT	99999
ISPrT	0min
MinCapPrT/PrT/PrT	n

Network editor

Messages

Last run: 03.02.2023 15:23

Time

Windows taskbar: 15:23 3.2.2023

Assignment and plotting

The screenshot displays the PTV Visum software interface. The main window is titled 'Network: 2023TA_2.ver - PTV Visum Uni 2023 (SP 1-3) - [Procedure sequence] - Remaining run time: 00:42:10'. The 'Procedure sequence' table is visible, showing a list of procedures with columns for 'Active', 'Procedure', 'Reference object(s)', and 'Variant/file'. A dialog box titled 'Select demand segments' is open, showing a 'Select mode' dropdown set to 'All PrT modes' and a list of demand segments including 'C Car' and 'T Truck'.

	Active	Procedure	Reference object(s)	Variant/file
4	<input type="checkbox"/>	Trip distribution	Strata Demand split	
1	<input type="checkbox"/>	Mode choice	All MO1 demand strata	
2	<input type="checkbox"/>	PrT assignment	C Car	Equilibrium assignment
3	<input checked="" type="checkbox"/>	PuT assignment	X PuT	Timetable-based
4	<input checked="" type="checkbox"/>			

Select demand segments dialog box content:

Select mode: All PrT modes

Select one or several demand segments

Demand segments: C Car, T Truck

Assignment and plotting

The screenshot displays the PTVisum software interface. The main window is titled "Network: 2023TA_2.ver - PTV Visum Uni 2023 (SP 1-3) - [Procedure sequence] - Remaining run time: 00:41:59". The interface includes a menu bar, a toolbar, and several panels.

The "Procedure sequence" table is the central focus, showing the following data:

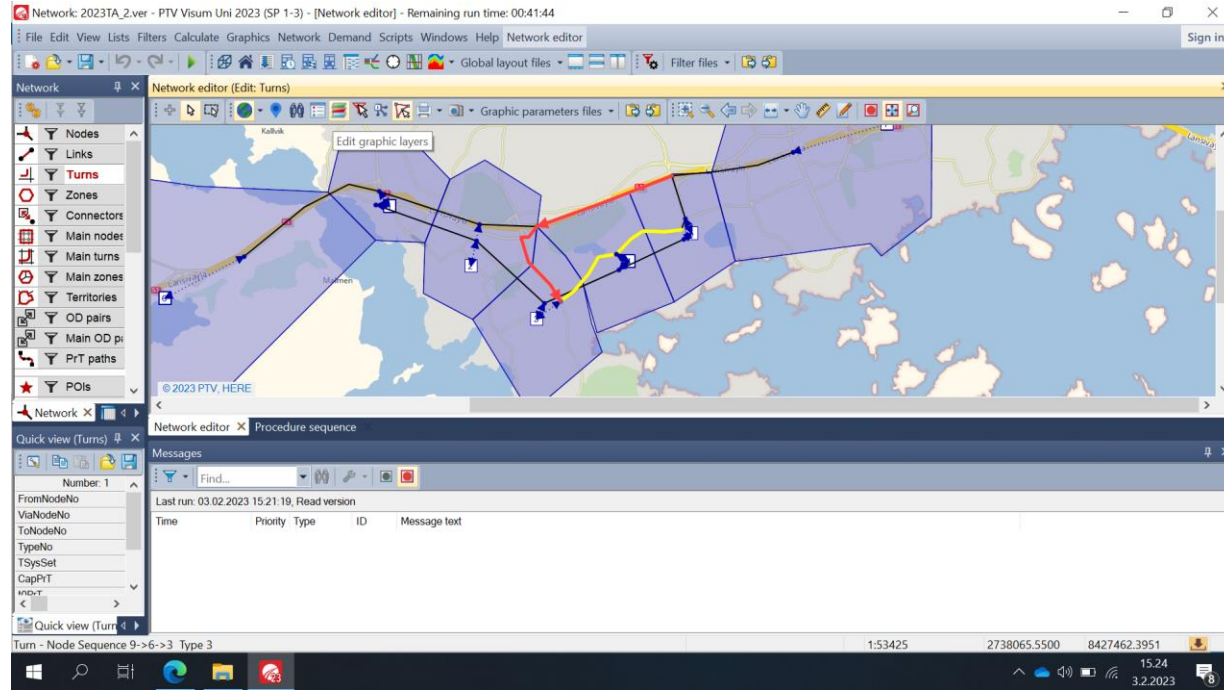
Procedure	Reference object(s)	Variant/file	Messages	Comment
4				
1	Trip distribution	Strata Demand split		
2	Mode choice	All MD1 demand strata		
3	PuT assignment	C Car	Equilibrium assignment	✓
4	PuT assignment	X PuT	Incremental assignment	

A context menu is open over the "Equilibrium assignment" cell in row 3, listing the following options:

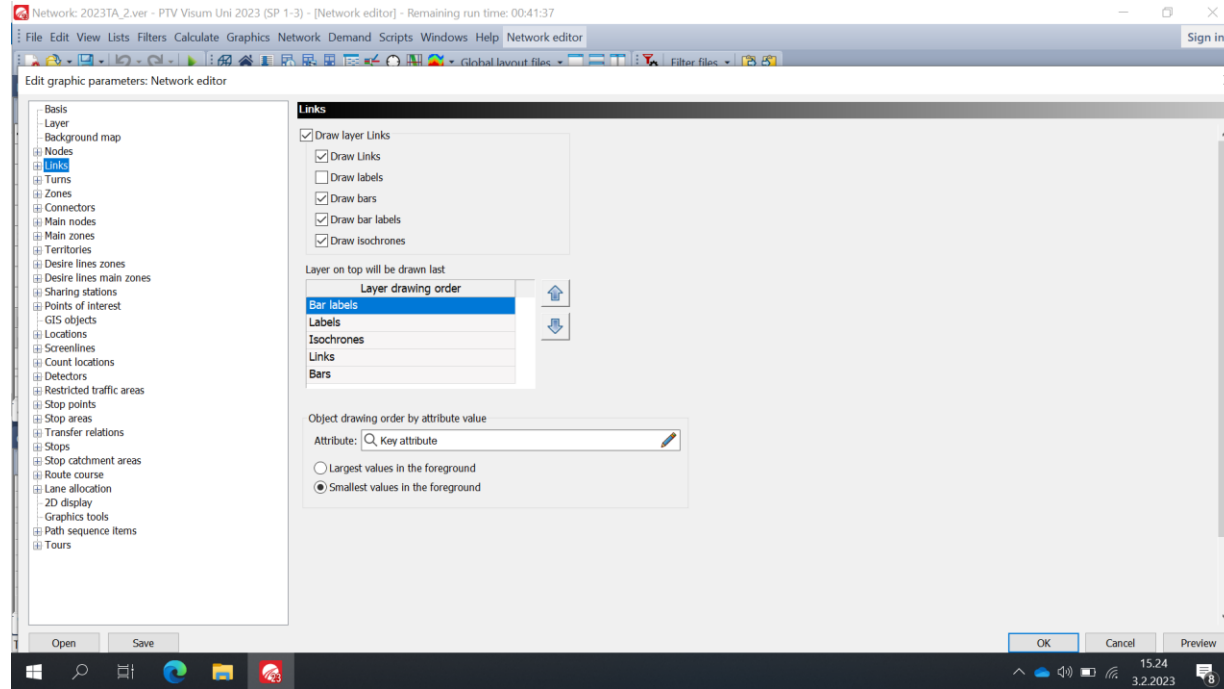
- Equilibrium assignment
- Equilibrium assignment LUCE
- Equilibrium assignment Bi-conjugate Frank-Wolfe
- Equilibrium_Lohse
- Stochastic assignment
- Bicycle assignment
- TRIBUT-Equilibrium assignment
- TRIBUT-Equilibrium_Lohse
- Dynamic User Equilibrium DUE
- Dynamic stochastic assignment
- Simulation-based dynamic assignment (SBA)

The "Messages" panel at the bottom shows a message from "Last run: 03.02.2023 15:21:19, Read version". The table below it has the following columns: Time, Priority, Type, ID, Message text.

Assignment and plotting



Assignment and plotting



Assignment and plotting

Network: 2023TA_2_ver - PTV Visum Uni 2023 (SP 1-3) - [Network editor] - Remaining run time: 00:41:29

File Edit View Lists Filters Calculate Graphics Network Demand Scripts Windows Help Network editor

Edit graphic parameters: Network editor

Links - Bars - Display

⚠ All bars are switched off. No bars are displayed in the network.

	1	2	3	4	5	6	
Draw	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
BarType	Standard bars	Standard bars	Standard bars	Standard bars	Standard bars	Standard bars	
ScaleAttrID	Volume PrT [veh] (AP)	Volume PuT [Pers] (AP)	Volume-TSys [Pers] (W/AP)	vCur-PrTSys (C)	t-PuTSys (B)	Vehicle hours traveled tCur (AP)	
NegativeScaleAttrID							
RelatedBar							
Scale/MaxDimension	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Scale/UseAutoScale	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Scale/MinValue	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scale/MaxValue	20000.00	20000.00	20000.00	20000.00	20000.00	20000.00	20000.00
Scale/AutoScaleFactor	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MinValNet	0	0	0	0	0	47s	0h
MaxValNet	26	80	10	50km/h	3min 15s	1h 7min 17s	
Label/UseLabelThreshold	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Label/LabelThreshold	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Label/RoundValue	1	1	1	1	1	1	1
StandardBar/UseClassifiedMode	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Filling							

OK Cancel Preview

15:24 3.2.2023

Assignment and plotting

Network: 2023TA_2.ver* - PTV Visum Uni 2023 (SP 1-3) - [Network editor] - Remaining run time: 00:41:20

File Edit View Lists Filters Calculate Graphics Network Demand Scripts Windows Help Network editor Sign in

Edit graphic parameters: Network editor

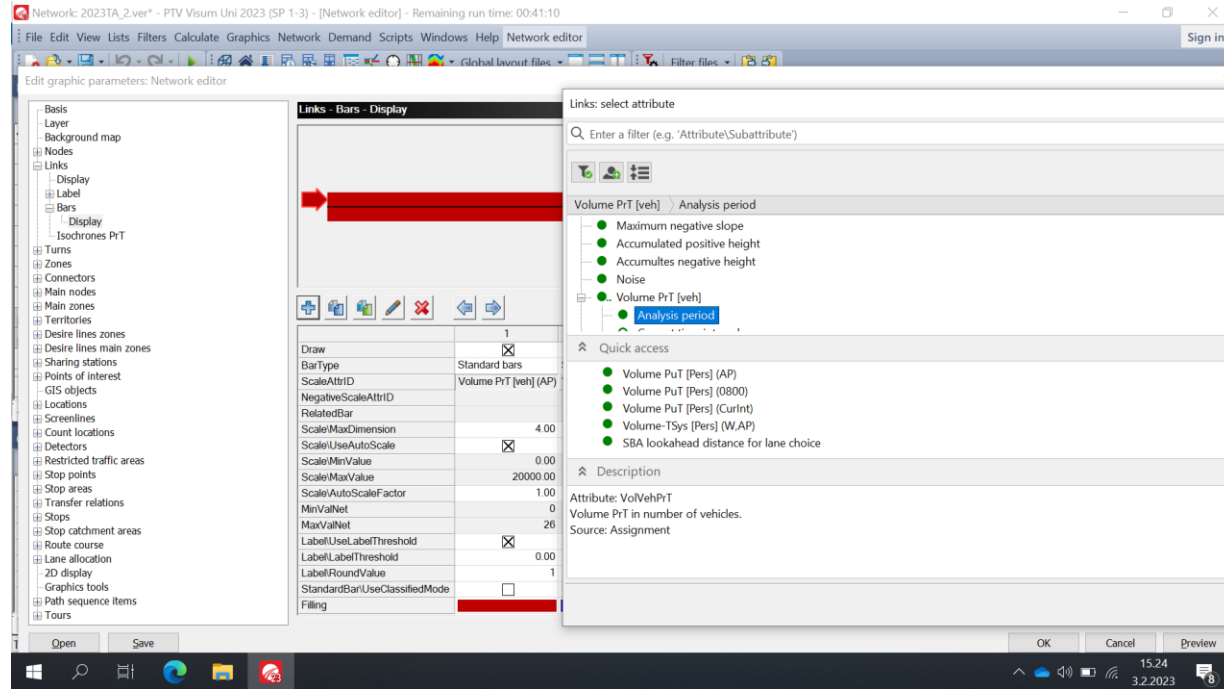
Links - Bars - Display

	1	2	3	4	5	6	
Draw	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
BarType	Standard bars	Standard bars	Standard bars	Standard bars	Standard bars	Standard bars	
ScaleAttrID	Volume PrT [veh] (AP)	Volume PuT [Pers] (AP)	Volume-TSys [Pers] (W,AP)	vCur-PrTSys (C)	t-PuTSys (B)	Vehicle hours traveled tCur (AP)	
NegativeScaleAttrID							
RelatedBar							
Scale/MaxDimension	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Scale/UseAutoScale	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Scale/MinValue	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scale/MaxValue	20000.00	20000.00	20000.00	20000.00	20000.00	20000.00	20000.00
Scale/AutoScaleFactor	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MinValNet	0	0	0	0	47s	0h	
MaxValNet	26	80	10	50kmh	3min 15s	1h 7min 17s	
Label/UseLabelThreshold	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Label/LabelThreshold	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Label/RoundValue	1	1	1	1	1	1	1
StandardBar/UseClassifiedMode	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Filling							

Open Save OK Cancel Preview

15:24 3.2.2023

Assignment and plotting



Assignment and plotting

Network: 2023TA_2.ver* - PTV Visum Uni 2023 (SP 1-3) - [Network editor] - Remaining run time: 00:40:57

File Edit View Lists Filters Calculate Graphics Network Demand Scripts Windows Help Network editor

Edit graphic parameters: Network editor

Links - Bars - Display

⚠ All bars are switched off. No bars are displayed in the network.

Fill and border

Preview

Fill style

Foreground color: [Blue]

Background color: [White]

Hatch type: [None]

Hatch width (mm): 0

Border

No border

Same border color as fill color

Border color: [White]

Line style: [Solid]

Line width (mm): 0.3

OK Cancel

	1	2
Draw	<input type="checkbox"/>	<input type="checkbox"/>
BarType	Standard bars	Standard bars
ScaleAttrID	Volume PuT [veh] (AP)	Volume PuT [Pers] (AP)
NegativeScaleAttrID		
RelatedBar		
Scale/MaxDimension	4.00	4.00
Scale/UseAutoScale	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Scale/MinValue	0.00	0.00
Scale/MaxValue	20000.00	20000.00
Scale/AutoScaleFactor	1.00	1.00
MinValNet	0	0
MaxValNet	26	80
Label/UseLabelThreshold	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Label/LabelThreshold	0.00	0.00
Label/RoundValue	1	1
StandardBar/UseClassifiedMode	<input type="checkbox"/>	<input type="checkbox"/>
Filling	[Red]	[Blue]

	5	6
Draw	<input type="checkbox"/>	<input type="checkbox"/>
BarType	Standard bars	Standard bars
ScaleAttrID	PuT Sys (B)	Vehicle hours traveled tCur (AP)
NegativeScaleAttrID		
RelatedBar		
Scale/MaxDimension	4.00	4.00
Scale/UseAutoScale	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Scale/MinValue	0.00	0.00
Scale/MaxValue	20000.00	20000.00
Scale/AutoScaleFactor	1.00	1.00
MinValNet	47s	0h
MaxValNet	3min 15s	1h 7min 17s
Label/UseLabelThreshold	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Label/LabelThreshold	0.00	0.00
Label/RoundValue	1	1
StandardBar/UseClassifiedMode	<input type="checkbox"/>	<input type="checkbox"/>
Filling	[Red]	[Red]

Assignment and plotting

Network: 2023TA_2.ver* - PTV Visum Uni 2023 (SP 1-3) - [Network editor] - Remaining run time: 00:40:43

File Edit View Lists Filters Calculate Graphics Network Demand Scripts Windows Help Network editor

Edit graphic parameters: Network editor

Zones - Chart

General settings | Scaling | Text format

Draw chart

Column chart

Pie chart

Column width (mm):

	1	2	3
Draw	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ScaleAttrID	Number of connectors: Origin traffic-DSeg (C) Mean journey time Pt		
ScaleMaxColumnHeight	30.0		30.0
ScaleMinValueColumn	0.00		0.00
ScaleMaxValueColumn	20.00		1000.00
DisplayAsBaseColumn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UseDisplayThreshold	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DisplayThreshold	0.00		0.00
RoundValue	1		1
NumDecPlaces	0		0
StringFormatType	StandardFormat	StandardFormat	Hours
MinValNet	1	0.002	0h
MaxValNet	2	26.165	36min 54s
DisplayUseClassifiedMode	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Display			

Open Save OK Cancel Preview

15:25 3.2.2023

Assignment and plotting

The screenshot displays the PTV Visum software interface. The main window is titled "Network: 2023TA_2.ver* - PTV Visum Uni 2023 (SP 1-3) - [Network editor] - Remaining run time: 00:39:28". The interface is divided into several panels:

- Matrices:** A tree view on the left showing "All matrices" with sub-categories: "Demand matrices", "Zone matrices", "Data matrices" (containing items 1-14, including "7 Mode choice Strata x C"), and "Skim matrices".
- Network editor (Show marked OD pairs):** A central map view showing a network of roads and zones. A yellow line highlights a specific path through the network.
- Quick view (OD pairs):** A table on the left with columns "FromZoneNo", "ToZoneNo", and "DirectDist".
- Messages:** A log window on the right showing the results of a procedure run. The last run was on 03.02.2023 at 15:26:36. The log includes a table for "Procedure step 4: 'PuT assignment'" with columns for Time, Priority, Type, ID, and Message text.

The message log table is as follows:

Time	Priority	Type	ID	Message text
03.02.2023 15:...	Note	OD pairs	(6,3)	No path found on relation 6 -> 3. Non-assigned demand for DSeg X: 10
03.02.2023 15:...	Note	OD pairs	(6,4)	No path found on relation 6 -> 4. Non-assigned demand for DSeg X: 30
03.02.2023 15:...	Note	OD pairs	(6,5)	No path found on relation 6 -> 5. Non-assigned demand for DSeg X: 30
03.02.2023 15:...	Note	OD pairs	(3,6)	No path found on relation 3 -> 6. Non-assigned demand for DSeg X: 10

At the bottom of the interface, a status bar indicates "Marked OD pairs are displayed. Interactive editing is not possible." and the Windows taskbar shows the time as 15:26 on 3.2.2023.

Scenarios & modifications

The screenshot displays the PTV Visum software interface. The main window is titled "Network editor (Show marked OD pairs)" and shows a map of a region with a network of roads and highlighted areas. The interface includes a menu bar, a toolbar, and a status bar. The status bar at the bottom indicates "Marked OD pairs are displayed. Interactive editing is not possible." and shows the time "15:27 3.2.2023".

The "Messages" window is open, showing the following log:

Last run: 03.02.2023 15:26:36, Procedure run

Time	Priority	Type	ID	Message text
Procedure step 4: "PuT assignment"				
03.02.2023 15:...	Note	OD pairs	(6,3)	No path found on relation 6 -> 3. Non-assigned demand for DSeg X: 10
03.02.2023 15:...	Note	OD pairs	(6,4)	No path found on relation 6 -> 4. Non-assigned demand for DSeg X: 30
03.02.2023 15:...	Note	OD pairs	(6,5)	No path found on relation 6 -> 5. Non-assigned demand for DSeg X: 30
03.02.2023 15:...	Note	OD pairs	(3,6)	No path found on relation 3 -> 6. Non-assigned demand for DSeg X: 10

Scenarios & modifications

The screenshot displays the PTV Visum software interface. The main window is titled "Network editor (Show marked OD pairs)" and shows a map of a region with a network of roads and highlighted areas. The "File" menu is open, showing options like "New", "Open...", "Save", and "Scenario management". The "Messages" panel at the bottom right shows a log of messages from a procedure run on 03.02.2023 at 15:26:36. The messages indicate that no paths were found for certain OD pairs on specific relations.

Network editor (Show marked OD pairs)

File Edit View Lists Filters Calculate Graphics Network Demand Scripts Windows Help Network editor

New Ctrl+N

Open... Ctrl+O

Open global layout...

Open file

Save Ctrl+S

Save as...

Save global layout as...

Save file as

Compare and transfer networks

Scenario management

Import

Export

Export graphics (Network editor)

Print (Network editor)

Project directories

Open working directory

Show log files

File info

Comment in activity protocol...

1 2023TA_2.ver

2 project classroom.vpdx

3 ScenarioManagement.vpdx

4 2023TA.ver

Exit Alt+F4

Network editor X Matrix editor Procedure sequence

Messages

Find...

Last run: 03.02.2023 15:26:36, Procedure run

Time	Priority	Type	ID	Message text
03.02.2023 15:...	Note	OD pairs	(6,3)	No path found on relation 6 -> 3. Non-assigned demand for DSeg X: 10
03.02.2023 15:...	Note	OD pairs	(6,4)	No path found on relation 6 -> 4. Non-assigned demand for DSeg X: 30
03.02.2023 15:...	Note	OD pairs	(6,5)	No path found on relation 6 -> 5. Non-assigned demand for DSeg X: 30
03.02.2023 15:...	Note	OD pairs	(3,6)	No path found on relation 3 -> 6. Non-assigned demand for DSeg X: 10

Marked OD pairs are displayed. Interactive editing is not possible.

1:66769 2735001.0250 8429810.7973

15:27 3.2.2023

Scenarios & modifications

The screenshot shows the PTV Visum software interface. The main window is titled "Network editor (Show marked OD pairs)" and displays a map of a region with a network of roads and highlighted areas. The "File" menu is open, showing options like "New", "Open...", "Save", and "Scenario management". The "Scenario management" submenu is also open, showing options like "New project...", "Open project...", "Import", "Export", etc.

The "Messages" window at the bottom right displays the following information:

Last run: 03.02.2023 15:26:36, Procedure run

Time	Priority	Type	ID	Message text
Procedure step 4: "PuT assignment"				
03.02.2023 15:...	Note	OD pairs	(6,3)	No path found on relation 6 -> 3. Non-assigned demand for DSeg X: 10
03.02.2023 15:...	Note	OD pairs	(6,4)	No path found on relation 6 -> 4. Non-assigned demand for DSeg X: 30
03.02.2023 15:...	Note	OD pairs	(6,5)	No path found on relation 6 -> 5. Non-assigned demand for DSeg X: 30
03.02.2023 15:...	Note	OD pairs	(3,6)	No path found on relation 3 -> 6. Non-assigned demand for DSeg X: 10

At the bottom of the interface, a status bar indicates "Marked OD pairs are displayed. Interactive editing is not possible." The system tray shows the time as 15:27 on 3.2.2023.

Scenarios & modifications

The screenshot displays the PTV Visum Network editor interface. A 'Create new project' dialog box is open, with the following fields and options:

- Project name:** [Empty text box]
- Base directory:** \\home.org.aalto.fi\agriess1\data\Documents
- Project file:** \\home.org.aalto.fi\agriess1\data\Documents\.\vpdtx
- Base version:**
 - Use currently loaded data as base version
 - Use existing version as base version
- Project database:**
 - Manage project database in file (allows you to copy the project easily, but does not support simultaneous editing by multiple users)
 - Manage project database in SQL Server (supports simultaneous editing of a project by multiple users, but requires project database export to copy it)

Buttons: OK, Cancel

Background console window output:

```
03.02.2023 15:27 Note OD pairs (6,3) No path found on relation 6 -> 3. Non-assigned demand for DSeg X: 10
03.02.2023 15:27 Note OD pairs (6,4) No path found on relation 6 -> 4. Non-assigned demand for DSeg X: 30
03.02.2023 15:27 Note OD pairs (6,5) No path found on relation 6 -> 5. Non-assigned demand for DSeg X: 30
03.02.2023 15:27 Note OD pairs (3,6) No path found on relation 3 -> 6. Non-assigned demand for DSeg X: 10
```

Scenarios & modifications

The screenshot displays the PTVisum software interface. The main window is titled "Project: project1 - PTV Visum Uni 2023 (SP 1-3) - [Network editor] - Remaining run time: 00:37:35". The interface includes a menu bar (File, Edit, View, Lists, Filters, Calculate, Graphics, Network, Demand, Scripts, Windows, Help, Network editor) and a toolbar. The "Edit project" window is open, showing various settings tabs: Basic settings, Scenarios, Modifications, Procedure parameter sets, Global layouts, Comparison patterns, User-def. attributes, Distributed computing, and Multi-user mode. The "Basic settings" tab is active, showing fields for Project name (project1), Base version, Project directories, Project settings, Project protection, and Log. The Log section contains the following entry:

Date	Entry
3.2.2023 15:28:20	Project project1 was created by user agrid1 with base version \\home.org.aalto.fi\...

Below the "Edit project" window, a "Marking" window is open, displaying a table of marked OD pairs:

ToZoneNo	DirectDist

The "Marking" window also shows a list of errors:

Time	Priority	Type	ID	Message text
Procedure step 4: "PuT assignment"				
03.02.2023 15:...	Note	OD pairs	(6,3)	No path found on relation 6 -> 3. Non-assigned demand for DSeg X: 10
03.02.2023 15:...	Note	OD pairs	(6,4)	No path found on relation 6 -> 4. Non-assigned demand for DSeg X: 30
03.02.2023 15:...	Note	OD pairs	(6,5)	No path found on relation 6 -> 5. Non-assigned demand for DSeg X: 30
03.02.2023 15:...	Note	OD pairs	(3,6)	No path found on relation 3 -> 6. Non-assigned demand for DSeg X: 10

The Windows taskbar at the bottom shows the system tray with the time 15:28 on 3.2.2023.

Scenarios & modifications

The screenshot shows a software application window titled "Project: project1 - PTV Visum Uni 2023 (SP 1-3) - [Network editor] - Remaining run time: 00:37:29". The interface includes a menu bar (File, Edit, View, Lists, Filters, Calculate, Graphics, Network, Demand, Scripts, Windows, Help, Network editor) and a toolbar. The main workspace is titled "Edit project" and contains a sub-menu bar (Basic settings, Scenarios, Modifications, Procedure parameter sets, Global layouts, Comparison patterns, User-def. attributes, Distributed computing, Multi-user mode). Below this is a table with columns: Number, 0, Number, Load order, Code, Description, Group, Dependent on, Exclusion, Scenarios. The table is currently empty. Below the table is a toolbar with various icons. At the bottom of the workspace are buttons for "Export partial project...", "Integrate project...", and "Close project".

Below the main workspace, there is a "Quick view (OD pairs)" window. It displays a table with the following data:

Time	Priority	Type	ID	Message text
Procedure step 4: "PuT assignment"				
03.02.2023 15:...	Note	OD pairs	(6,3)	No path found on relation 6 -> 3. Non-assigned demand for DSeg X: 10
03.02.2023 15:...	Note	OD pairs	(6,4)	No path found on relation 6 -> 4. Non-assigned demand for DSeg X: 30
03.02.2023 15:...	Note	OD pairs	(6,5)	No path found on relation 6 -> 5. Non-assigned demand for DSeg X: 30
03.02.2023 15:...	Note	OD pairs	(3,6)	No path found on relation 3 -> 6. Non-assigned demand for DSeg X: 10

At the bottom of the application, a status bar indicates "Marked OD pairs are displayed. Interactive editing is not possible." and shows system information: 1:66769, 2729747.2649, 8423113.4364, 15:28, 3.2.2023.

Scenarios & modifications

The screenshot displays the PTV Visum software interface. A dialog box titled "Create new modification" is open, showing the following fields:

- Code: modification 1
- Description: Adding a new PT line
- Group: (empty dropdown)

Buttons for "OK" and "Cancel" are visible at the bottom of the dialog.

In the background, the "Edit project" window shows a table with the following columns: Number, Load order, Code, Description, Group, Dependent on, Exclusion, and Scenarios. The table is currently empty.

At the bottom of the interface, a log window displays the following table:

Time	Priority	Type	ID	Message text
Procedure step 4: "PuT assignment"				
03.02.2023 15:...	Note	OD pairs	(6,3)	No path found on relation 6 -> 3. Non-assigned demand for DSeg X: 10
03.02.2023 15:...	Note	OD pairs	(6,4)	No path found on relation 6 -> 4. Non-assigned demand for DSeg X: 30
03.02.2023 15:...	Note	OD pairs	(6,5)	No path found on relation 6 -> 5. Non-assigned demand for DSeg X: 30
03.02.2023 15:...	Note	OD pairs	(3,6)	No path found on relation 3 -> 6. Non-assigned demand for DSeg X: 10

The status bar at the bottom indicates "Marked OD pairs are displayed. Interactive editing is not possible." and shows the system time as 15:28 on 3.2.2023.

Scenarios & modifications

The screenshot shows a software application window titled "Project: project1 - PTV Visum Uni 2023 (SP 1-3) - [Network editor] - Remaining run time: 00:37:05". The main window has a menu bar (File, Edit, View, Lists, Filters, Calculate, Graphics, Network, Demand, Scripts, Windows, Help, Network editor) and a toolbar. A dialog box titled "Select the base scenario" is open, containing instructions and input fields for "Depending on", "Mutually excluding", and "Base scenario". The "Base scenario" list shows "Base version" and "user-defined".

In the background, a log window displays the following table:

Time	Priority	Type	ID	Message text
Procedure step 4: "PuT assignment"				
03.02.2023 15:...	Note	OD pairs	(6,3)	No path found on relation 6 -> 3. Non-assigned demand for DSeg X: 10
03.02.2023 15:...	Note	OD pairs	(6,4)	No path found on relation 6 -> 4. Non-assigned demand for DSeg X: 30
03.02.2023 15:...	Note	OD pairs	(6,5)	No path found on relation 6 -> 5. Non-assigned demand for DSeg X: 30
03.02.2023 15:...	Note	OD pairs	(3,6)	No path found on relation 3 -> 6. Non-assigned demand for DSeg X: 10

At the bottom of the dialog box, it says "Marked OD pairs are displayed. Interactive editing is not possible." The Windows taskbar at the bottom shows the time as 15:29 on 3.2.2023.

Scenarios & modifications

The screenshot displays the PTV Visum software interface for editing a network. The main window is titled "Project: project1 Modification: 1 modification 1 - PTV Visum Uni 2023 (SP 1-3) - [Network editor] - Remaining run time: 00:41:38". The interface includes a menu bar (File, Edit, View, Lists, Filters, Calculate, Graphics, Network, Demand, Scripts, Windows, Help, Network editor), a toolbar, and a status bar.

The central workspace is the "Network editor (Insert: Stop points)", which shows a map of a city area with a network of lines and nodes. The map is overlaid with a blue grid and various colored lines representing the network. The status bar at the bottom of the map area reads: "Stop point: Click = insert stop point with stop area at current position, [Ctrl] + click = insert only stop point and allocate to n".

On the left side, there is a "Network" panel with a tree view showing the following categories:

- Count locations
- Detectors
- Restr. traffic areas
- Sharing stations
- Stop points**
- Stop areas
- Stops
- System routes
- Lines
- Backgrounds
- Texts
- Polygons

Below the "Network" panel is a "Quick view (Stop points)" panel with a table showing the details of the selected stop point:

Property	Value
Number	1
No	34
Code	
Name	
StopAreaNo	34
NodeNo	
NumLines	0
PassBoard(AP)	

At the bottom right, there is a "Messages" panel with a search bar and a table showing the last run message:

Time	Priority	Type	ID	Message text
03.02.2023 15:57:29				Load modification 1

The Windows taskbar at the bottom shows the system clock as 15:58 on 3.2.2023.

Scenarios & modifications

The screenshot shows a software application window titled "Project: project1 Modification: 1 modification 1 - PTV Visum Uni 2023 (SP 1-3) - [Network editor] - Remaining run time: 00:41:15". The interface includes a menu bar (File, Edit, View, Lists, Filters, Calculate, Graphics, Network, Demand, Scripts, Windows, Help, Network editor) and a toolbar. The main area is titled "Edit project" and contains a table with the following data:

Number	Active	Number	Code	Description	Procedure parameter set	Modifications	Global layout	Calculation state	Progress	Calculation start time	Calculation end time	Calculation duration
1	<input checked="" type="checkbox"/>	1		0 from base version		...	0 without gloi	Not calculated				

Below the table is a toolbar with various icons. At the bottom of the window, there are buttons for "Export partial project...", "Integrate project...", and "Close project". A status bar at the bottom of the application window displays the text: "Stop point: Click = insert stop point with stop and stop area at current position, [Ctrl] + click = insert only stop point and allocate to n". The Windows taskbar at the bottom shows the system tray with the time 15:58 and date 3.2.2023.

Scenarios & modifications

The screenshot shows a software window titled "Project: project1 Modification: 1 modification 1 - PTV Visum Uni 2023 (SP 1-3) - [Network editor] - Remaining run time: 00:41:04". The main window contains a table with the following data:

Number	Active	Number	Code	Description	Procedure parameter set	Modifications	Global layout	Calculation state	Progress	Calculation start time	Calculation end time	Calculation duration
1	<input checked="" type="checkbox"/>	1		0 from base version		...	0 without gloI	Not calculated				

A "Select modifications" dialog box is open in the foreground, displaying a table with the following data:

Number	Selection	Number	Code	Description	Group	Scenarios
1	<input type="checkbox"/>	1	modification 1	Adding a new PT line		

The dialog box also includes a message: "The displayed modifications can be filtered by clicking the filter symbol in the column headers". At the bottom of the dialog are "OK" and "Cancel" buttons.

At the bottom of the main window, there is a status bar with the text: "Stop point: Click = insert stop point with stop and stop area at current position, [Ctrl] + click = insert only stop point and allocate to n". The system tray shows the time 15:59 on 3.2.2023.

Scenarios & modifications

The screenshot shows a software application window titled "Project: project1 Modification: 1 modification 1 - PTV Visum Uni 2023 (SP 1-3) - [Network editor] - Remaining run time: 00:40:58". The interface includes a menu bar (File, Edit, View, Lists, Filters, Calculate, Graphics, Network, Demand, Scripts, Windows, Help, Network editor) and a toolbar with various icons. Below the menu bar is a tabbed interface with "Edit project" selected. The main area contains a table with the following data:

Number	Active	Number	Code	Description	Procedure parameter set	Modifications	Global layout	Calculation state	Progress	Calculation start time	Calculation end time	Calculation duration
1	<input checked="" type="checkbox"/>	1		0 from base version	1	...	0 without gloi	Not calculated				

Below the table is a toolbar with icons for various actions. At the bottom of the window, there are buttons for "Export partial project...", "Integrate project...", and "Close project". A status bar at the very bottom displays the text: "Stop point: Click = insert stop point with stop and stop area at current position, [Ctrl] + click = insert only stop point and allocate to n". The Windows taskbar at the bottom shows the time as 15:59 on 3.2.2023.

Scenarios & modifications

The screenshot shows a software application window titled "Project: project1 Modification: 1 modification 1 - PTV Visum Uni 2023 (SP 1-3) - [Network editor] - Remaining run time: 00:40:48". The interface includes a menu bar (File, Edit, View, Lists, Filters, Calculate, Graphics, Network, Demand, Scripts, Windows, Help, Network editor) and a toolbar. The main area is titled "Edit project" and contains a table with the following data:

Number	Active	Number	Code	Description	Procedure parameter set	Modifications	Global layout	Calculation state	Progress	Calculation start time	Calculation end time	Calculation duration
1	<input checked="" type="checkbox"/>	1		0 from base version	1		0 without glo	Not calculated				

Below the table is a toolbar with various icons. At the bottom of the window, there are buttons for "Export partial project...", "Integrate project...", and "Close project". A status bar at the bottom of the application window displays the text: "Stop point: Click = insert stop point with stop and stop area at current position, [Ctrl] + click = insert only stop point and allocate to n". The Windows taskbar at the very bottom shows the time as 15:59 on 3.2.2023.

Scenarios & modifications

The screenshot displays the PTV Visum software interface. The main window title is "Project: project1 Modification: 1 modification 1 - PTV Visum Uni 2023 (SP 1-3) - [Network editor] - Remaining run time: 00:40:36". The menu bar includes File, Edit, View, Lists, Filters, Calculate, Graphics, Network, Demand, Scripts, Windows, Help, and Network editor. The toolbar contains various icons for file operations and project management.

The "Edit project" window shows a table with the following columns: Number, Active, Number, Code, Description, Procedure parameter set, Modifications, Global layout, Calculation state, Progress, Calculation start time, Calculation end time, and Calculation duration. The table contains one row with the following data:

Number	Active	Number	Code	Description	Procedure parameter set	Modifications	Global layout	Calculation state	Progress	Calculation start time	Calculation end time	Calculation duration
1	<input checked="" type="checkbox"/>	1		0 from base version	1		0 without glo	Not calculated				

A dialog box titled "Visum" is open in the center of the screen, displaying an information icon and the message "One active scenario is calculated." with "Yes", "No", and "Cancel" buttons.

The bottom of the interface shows a "Code" table with fields: Name, StopAreaNo (34), NodeNo, NumLines (0), PassBoard(AP), and BaseLine/AP. Below this is a "Quick view (Stop points)" and "Marking" section. The status bar at the bottom displays the text "Stop point: Click = insert stop point with stop and stop area at current position, [Ctrl] + click = insert only stop point and allocate to n" and system information: 1:27350, 2735921.3788, 8424772.0104, 15:59, 3.2.2023.

Scenarios & modifications

The screenshot displays a software window titled "Project: project1 Calculated scenario: 1 - PTV Visum Uni 2023 (SP 1-3) - [Network editor] - Remaining run time: 00:40:02". The interface includes a menu bar (File, Edit, View, Lists, Filters, Calculate, Graphics, Network, Demand, Scripts, Windows, Help, Network editor) and a toolbar. Below the menu bar is a tabbed interface with "Edit project" selected. A table lists scenarios and modifications:

Number	Active	Number	Code	Description	Procedure parameter set	Modifications	Global layout	Calculation state	Progress	Calculation start time	Calculation end time	Calculation duration
1	<input checked="" type="checkbox"/>	1		0 from base version	1		0 without glo	Calculated		3.2.2023 15:59:42	3.2.2023 15:59:54	12s

Below the table is a toolbar with various icons. At the bottom of the window, there are buttons for "Export partial project...", "Integrate project..." (with a tooltip "Load results of the marked scenario"), and "Close project". A status bar at the bottom shows "Node: Insert by mouse-click at current position" and "1:75446". The Windows taskbar at the very bottom shows the time as 16:00 on 3.2.2023.