

Common Tools

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1. About Common Tools

Common Tools are functional, modular components that can be dropped into one or more applications.

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2. Display Window

This is the main display window in which 3D and 2D network graphics are drawn.

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3. Layer Selector

The Layer Selector dockable window allows the user to toggle on and off different layers of the GUI.

For more information about this common tool refer to the manual for the package you are running.

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4. View Control

The View Control dockable window allows the user to access preset view points, layer groups and camera window positions.

For more information about this common tool refer to the manual for the package you are running.

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5. Map Window

The Map Window dockable window allows the user to display a simple overview of the network in 2D.

The panning navigation in the Map Window is connected to the focus point location in the main display. The Changing the focus point in the main display changes the location of the highlight rectangle in the Map window.

Zooming navigation in the Map Window is the same as the main display. In addition a number of panning buttons are provided on the menu bar at the bottom of the Map Window dialog.

For more information about this common tool refer to the manual for the package you are running.

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6. Route Viewer

The Route Viewer is a dockable window that displays the path through the network for a selected start and end point.

For more information about this common tool refer to the manual for the package you are running.

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7. OD Demands

The OD Demands Viewer is a dockable window that displays details of the travel demand between selected OD pairs, groups, or sectors in the network.

The OD's can be filtered by individual O or D, by groups of O's or D's and by sectors. Analysis can be further filtered by either matrix type or by vehicle type.

For more information about this common tool refer to the manual for the package you are running.

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8. Vehicle Dynamics

The Vehicle Dynamics Tool is a dockable CT that can be used to annotate vehicles with run time information.

The display can be filtered by vehicle type and driver type. Display options allow the different annotation types to use different colours, and different sizes. An isolate option is provide to only show those vehicle/driver types selected in the main display

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9. Hotspot Viewer

The Hotspot Viewer is a dockable window that displays the location of queuing in the network.

The Hotspot Viewer allows the user to configure the characteristics of a hotspot together with some display parameters.

The Hotspot Viewer is integrated into the Information Browser with all results being displayed in a separate tab. This functionality can be toggled on/off using the display options.

For more information about this common tool refer to the manual for the package you are running.

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10. Network Audit

The Network Audit tool is a dockable window tool that allows the user to query attributes of the nodes and links in the network and check them for correctness.

The Network Audit tool has two modes of operation, Links and Nodes, separated by two tabs.

For more information about this common tool refer to the manual for the package you are running.

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11. Network Search

The Network Search is a dockable window tool that allows the user to search for full or partial object names/id in the network. This tool replaces the old “nearest node” feature in previous version of the Paramics software.

The user can enter a search string and set a number of filter parameters for example case sensitivity and object type. Once the search is complete a number of matches (if any) will be displayed in the results list. This tool is network aware; double clicking on any entry in the results list will move the main graphics display to that location.

The History tab of the Network Search tool records the details of all previous searches and results. Double clicking on an entry in the history list will either re-execute the search or move the main graphics display to the selected result location.

The menu bar at the bottom of the Network Search tool allows access to some common tasks such as save and print

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12. Marking Rules

Marking rules allow specific sub set of the vehicles population to be highlighted in the main graphics display. Vehicles with specified OD pairs, or vehicles that cross a specified link during their journey through the network can be isolated.

For more information about this common tool refer to the manual for the package you are running.

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13. PT Info

The PT information tool is a dockable window that displays summary details of each Public Transport route in the currently loaded network.

For more information about this common tool refer to the manual for the package you are running.

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14. Signal States

The Signal States tool is a dockable window tool that displays details of each signalised intersection in the network.

For more information about this common tool refer to the manual for the package you are running.

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15. Vehicle Tracer

The Vehicle Tracers tool is a dockable window tool that allows the user to “tag” multiple vehicles in the simulation and extract information from them as the simulation runs.

For more information about this common tool refer to the manual for the package you are running.

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16. Info Browser

The Information Browser is common to all Paramics applications. The Information Browser in Estimator provides information for the following sections, with each section being accessed through the tab at the bottom of the tool:

For more information about this common tool refer to the manual for the package you are running.

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17. Project Library

The Project Library is an organisational aid aimed at enabling the user to draw on different networks and files contained within the same project. It is designed to help with management of the files required in project work.

For more information about this common tool refer to the manual for the package you are running.

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18. Distance Tool

The Distance Tool is a dockable window tool that allows the user to measure distance in the network.

The Distance Tool uses mouse clicks to create a polyline by adding points or removing points depending on the key presses. F7+Middle mouse is used to add a point to the polyline; F7+Right is used to remove the last point from the polyline.

The total distance measured is shown in the top section of the dialog. The position of each point in the polyline is shown in the lower half of the dialog, selecting an entry from this list will highlight that point in the main display.

The menu bar at the bottom of the Distance Tool allows access to some common tasks such as save and print.

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19. Grid and HUD

The Grid & HUD is a dockable window tool that allows the user to configure the display of a information display and grid display in the main graphics display window.

Options in the Grid tab allow the grid step size, scale, and display attributes to be configured. An optional base plane display parameter is also provided in this section.

Options in the HUD tab allow information graphics such as the crosshair position and the navigation information in 3D space to be displayed.

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20. Library Manager

The Library Manager lets the user organise thier project libraries.

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21. Library Properties

Allows the user to edit the Author, Name and Description of a library from within the Library Manager.

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