

Installing Paradox Routing Tool (PART)

1. Double click INS-PART.EXE downloaded from Paradox's website to invoke the installation process.
2. When the installation process is done, you will be presented with an option to reboot the machine at that time or do it later. It is recommended to reboot the machine before you use PART for the first time.
3. If you have any problems with installing PART please email to support@paradoxsci.com or call our Technical Support at **855-472-7236 ext.2**.

Authorization Key

Before you can start using PART, you will need to get an authorization code. To get the appropriate authorization code, use the following procedure.

1. Execute PART to be prompted with the authorization dialog.
2. Call **855-472-7236 ext.2** and get the authorization code. You can alternately email Code1 and Code2 to support@paradoxsci.com and leave the authorization dialog open until you receive the code.
3. Enter the authorization code in the dialog.
4. Click on OK to start using PART.

PART - Quick Tour

Execute PART by double clicking the shortcut to PART.EXE on your desktop

1. Upon execution, the application prompts user to either create a new project or open an existing project. Choose to *Open an existing Project*. Select the appropriate **Mapping** and **Calculation Libraries** when prompted. The libraries currently supported are PC*Miler and MapPoint.
2. The projects for the quick tour are in **X:\PART \PROJECTS** (where X is the destination folder, chosen by the user during install and is **C:\PROGRAM FILES** by default). Select one **of the .RTR** files available to open a project.
3. The first view that opens up is the data view with a list of all Orders in the project.
 - a. The list of Orders can be sorted by the value of a field (ex: City) by clicking on the header field of the column that lists the values for that field.
 - b. Double clicking on a row will bring up a *Order information* dialog
 - c. Clicking on *Next* and *Previous* buttons in this dialog will enable the user to traverse the list without having to close the dialog and double click on a particular Route.
4. View Parameters by selecting **Tools / Parameters**. Refer to the Chapters 3 and 4 of the user manual for a description of the parameters.
5. Open the Map and Schedule views by selecting **View/[Map/Schedule]**.
6. Map View presents the routing solution in a geographic view.

- a. The Map view can be zoomed in and out by right clicking on the map and selecting appropriate option. If using PC*Miler as the mapping library use the right click to view the Features option which can be used to turn on or off the different layers on the map (stops, routes, cities, roads, etc.). If using MapPoint as the engine, the map opens as a separate window.
 - b. If using PC*Miler, left clicking on an Order will display the details in a dialog. Right click at the same point will display the route information in a different dialog.
7. Schedule Views present vehicle and driver schedules in a Gantt chart view.
 - a. The chart view is divided into two sections. The section on the left-hand side of the chart presents a list of statistics for each resource. The main section (to the right of statistics) is the spatial/time view of the routes.
 - b. The bars on the chart represent the routes. They can be dragged and dropped horizontally and vertically to alter the schedule as required.
 - c. Double clicking on a bar will bring up a *Route information* dialog presenting the details of the route represented by the bar.
 - d. To configure the chart that is in focus, select the *Configure View* tool bar button (next to the Page Up button). The configuration features include the functionality, change the height of the rows on the chart, and set the margins for printing the chart.
 - e. The horizontal and vertical scroll bars can be used for traversing the charts.
 - f. Refer to the Chapter 4 of the user manual for a description on configuring the time scale of the chart.
 8. View the information on all the different data elements by selecting **Data / Routing Objects**. Each of the data elements (depots, orders, vehicles, and routes) is listed in a separate dialog. More details on any specific element can be obtained by double clicking on it.
 9. Open the Route reports by selecting **Reports / [Rout Manifest/Route Summary]**. All the reports can be configured, previewed, and printed.
 - a. Similar to the charts, reports can be configured by selecting the *Configure View* option. In addition to the margins the header and footer of the report can be defined or modified. Also only the desired fields can be selected for display along with specifying their widths and column headers.
 - b. The Page Up (up arrow), Page Down (down arrow), Go Home, and Go End tool bar buttons can be used to traverse the reports.
 8. View statistics by selecting **Data / Summary Statistics** or by clicking on the graph toolbar button
 9. Define parameters (refer to 4) as required.
 10. Run the Router and Scheduler by selecting **Solve / [Routing/Scheduling]**
 11. View statistics (refer to 8) for this solution. The open views are refreshed automatically.
 12. To execute data Import/Export, select the required option from the **Data** menu and follow the prompts. Import data only into a new project (create a new project first). Export data from a project with data.

Working with the Demo Projects

There are six demo projects in the **PROJECTS** folder under the destination folder (PART by default).

1. *Network_Analysis_9_DC.RTR* - Network design project to locate 9 DCs for

current demand distribution. This is an example for strategic use of PART to evaluate potential locations for a given set of DCs to minimize total weighted (by demand) distance.

2. *Network_Analysis_2_DC_One_Greenfield.RTR* - Network design project to determine optimal demand assignment in a 2 DC network that includes an existing facility and requires locating a new facility for the second DC. This is another example for strategic use of PART to determine location for the required facilities and assign demand (e.g., stores) to minimize total weighted (by demand) distance.
3. *One_Week_Master_Time_Windows.RTR* - One week routing and scheduling project created to determine vehicle routes and schedules with a set of master operating time windows, service restrictions, DOT regulations etc.
4. *One_Week_Customer_Time_Windows_VTypes.RTR* - One week routing and scheduling project created to determine vehicle routes and schedules with a set of customer specific time windows, multiple vehicle types, service restrictions, DOT regulations etc.
5. *Single_Depot_Master_Windows.RTR* - Single depot routing and scheduling project created to determine vehicle routes with a set of master operating time windows, service restrictions, DOT regulations etc.
4. *Single_Depot_One_Week_Customer_Windows_Store_Delivery.RTR* - Single depot routing and scheduling project created to determine vehicle routes and schedules for weekly store delivery operation with store specific operating time windows, service restrictions, DOT regulations etc.

Help Files

The user manual and import/export specification files can be found in the **HELP** folder under the destination folder (PART by default).