Roadnet Interface

Adding Locations to Roadnet

Before you start using the Roadnet interface you must "Geocode" your store locations. The system automatically assigns a location ID (Geocodes) to your stores based on either the shipto or billto address. Follow the steps outlined below if you are adding all your store locations for the first time or if you are just updating to add a new location.

1. On a command line enter, **CALL BILLL2CL** and press **Enter**.

    Note: *In the near future, this procedure will be accessible via a menu command.*

2. A Customer Selection Parameter screen appears.

```
      CUSTOMER SELECTION PARAMETERS                EXTRACT DATA

  I/O █ Company#s........  2   _   _   * LEAVE ANY CATEGORY BLANK TO INCLUDE ALL *
  I/O _ Branch#s.........  __  __  __  __  __  __  (?)
  I/O _ Salesperson#s....  __  __  __  __  __  __  (?)
  I/O _ Area Codes.......  __  __  __  __  __  __
  I/O _ Zip Codes........  ____  ____  ____  ____  ____  ____
  I/O _ Cust Types.......  __  __  __  __  __  __  (?)
  I/O _ Cust Price List#s  __  __  __  __  __  __  (?)
  I/O _ Cust Region Codes  __  __  __  __  __  __  (?)
  I/O _ State Codes......  __  __  __  __  __  __
  I/O _ Cust Rating Codes  _   _   _   _   _   _
  I/O _ Credit Mgr Codes.  _   _   _   _   _   _   (?)
  I/O _ Truck Route Codes  __  __  __  __  __  __  (?)
  I/O _ County#s.........  __  __  __  __  __  __
  I/O _ Chain Codes......  __  __  __  __  __  __  (?)
  I/O _ Marketing Pgms...  __  __  __  __  __  __  (?)
  I/O _ Display Types....  __  __  __  __  __  __  (?)
  I/O _ Item Class Codes.  __  __  __  __  __  __  (?)

   Include Cash Accounts?    (Y/N): Y  (account#s 80-99)
   Include Special Accounts? (Y/N): Y  (account#s 60000-99999)

   F4=Cancel.          F7=Continue.            (?)=Enter "?" To Search.
```

Figure 1: Customer Selection Parameter Screen

Using this screen you can include every store/location in your database (leave all the fields blank), or you can limit the update to only one store. Use the **I/O** field to include or omit locations based on the parameters (company#, branch#s, salesperson#s, etc.).

3. After selecting your parameters, press **F7** to continue to the next screen.

```
  5/18/04          Enter GEOCODE File Billto/Shipto Information      BILLTO2
  16:15:47                                                           X8
 _____

Limit Download to customers with OPEN dates on or after..: █     0 (0=ALL)
                                                            (MMDDYY)


Limit Download to customers with CHANGE dates on or after:      0 (0=ALL)
                                                            (MMDDYY)


Enter in Ship via codes to INCLUDE:


    ___   ___   ___   ___   ___   ___   ___   ___   ___   ___
   |   | |   | |   | |   | |   | |   | |   | |   | |   | |   |

                      Leave blank to select ALL





 _____

 F4=Cancel   F7=Continue   F11=Previous
```

Figure 2: Entering Billto/Shipto Information

4. This screen lets you further refine your Geocoding. For example, if you leave the field **Limit Download to customers with OPEN dates on or after** blank, all customers with open order dates will be included in the process. Depending on your volume of open order dates, this could be a extensive amount of information to include in the Geocoding process.

    This same logic applied to the Limit Download to customers with CHANGE dates on or after field. Furthermore, you can limit the download by Ship Via codes.

5. Press **Enter**. The next screen displays the directory where the Geocode files are going to be placed after processing. The loc.txt and route.txt files need to be imported by Roadnet.

```
USER OPTIONS

        NOTE: Enter 0 to create/replace the RoadNet Location and Route files.

        These files are created in the following directories:
        /home/Dancik/UPS/Roadnet/Geocode/loc.txt
        /home/Dancik/UPS/Roadnet/Geocode/route.txt

        Enter one of the choices listed above: 0




        F4=Cancel
        F11=Return To Previous Screen
```

Figure 3: Creating location and route text files.

6. Make a note of the directory where the loc.txt and route.txt files are going to be placed and press **Enter**. The next screen in the process gives you three time frames to run the report.

```
        JOB SCHEDULING PARAMETERS



        Enter "1" to Run Now.
        Enter "2" to Run Tonight.
        Enter "3" to Run On Weekly Jobq.

        Enter 1, 2, or 3: , ,






                 F4=Cancel
        F11=Return To Previous Screen
```

Figure 4: Job Scheduling Time Frames

7. As soon as the download process is complete (it could be immediately (option 1), during night jobs (option 2), or as part of a weekly job queue (option 3)), all the billto and shipto addresses in your system will be Geocoded and ready to be used by Roadnet.

Sending Order Locations for Routing

1. From the main menu, access option **Warehouse and Delivery**.

2. On the Warehouse Functions screen that appears, select option **8 - Warehouse Shipping Reports**.
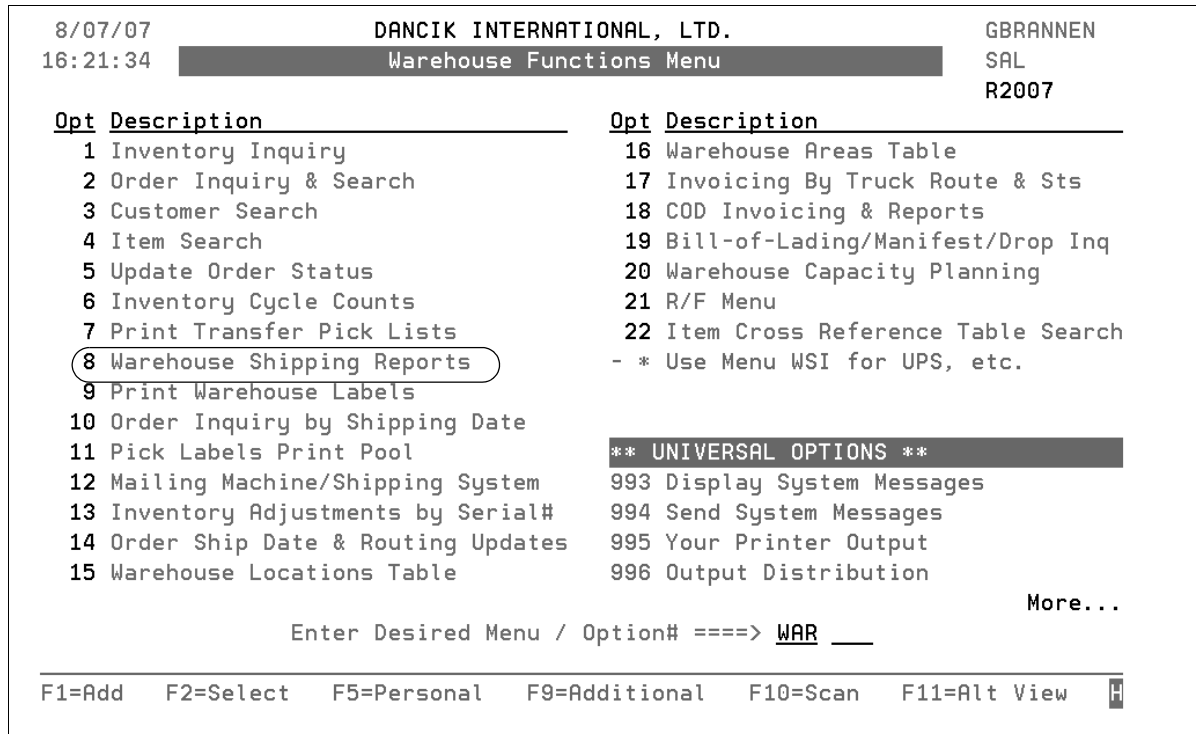
```
 8/07/07                 DANCIK INTERNATIONAL, LTD.                GBRANNEN
16:21:34                  Warehouse Functions Menu                 SAL
                                                                   R2007

Opt Description                           Opt Description
  1 Inventory Inquiry                      16 Warehouse Areas Table
  2 Order Inquiry & Search                 17 Invoicing By Truck Route & Sts
  3 Customer Search                        18 COD Invoicing & Reports
  4 Item Search                            19 Bill-of-Lading/Manifest/Drop Inq
  5 Update Order Status                    20 Warehouse Capacity Planning
  6 Inventory Cycle Counts                 21 R/F Menu
  7 Print Transfer Pick Lists              22 Item Cross Reference Table Search
  8 Warehouse Shipping Reports            -  * Use Menu WSI for UPS, etc.
  9 Print Warehouse Labels
 10 Order Inquiry by Shipping Date
 11 Pick Labels Print Pool               ** UNIVERSAL OPTIONS **
 12 Mailing Machine/Shipping System      993 Display System Messages
 13 Inventory Adjustments by Serial#     994 Send System Messages
 14 Order Ship Date & Routing Updates    995 Your Printer Output
 15 Warehouse Locations Table            996 Output Distribution
                                                                  More...
             Enter Desired Menu / Option# ====> WAR ___
_____
 F1=Add   F2=Select   F5=Personal   F9=Additional   F10=Scan   F11=Alt View  H
```

Figure 5: Warehouse Functions Menu

3. The Warehouse Shipment Control Reports screen appears. Enter the **Type of Shipments** (either customer shipments or transfers). For the **Type of Report** enter a **1** for a load sheet.
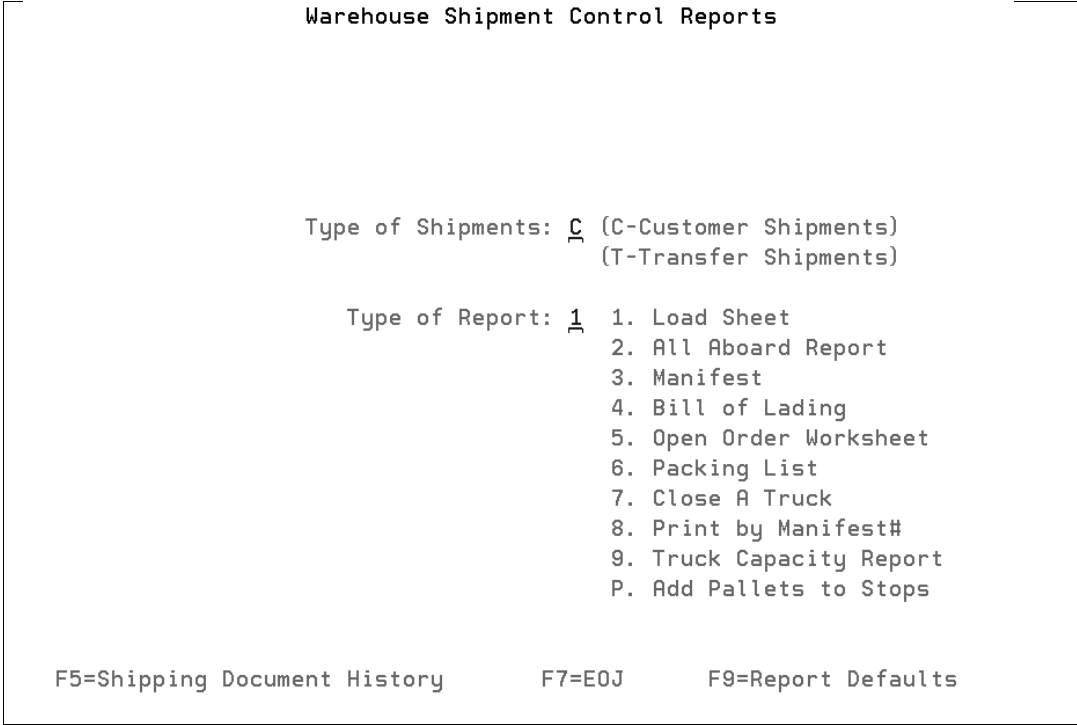
```
                Warehouse Shipment Control Reports




              Type of Shipments: C (C-Customer Shipments)
                                   (T-Transfer Shipments)

                 Type of Report: 1  1. Load Sheet
                                     2. All Aboard Report
                                     3. Manifest
                                     4. Bill of Lading
                                     5. Open Order Worksheet
                                     6. Packing List
                                     7. Close A Truck
                                     8. Print by Manifest#
                                     9. Truck Capacity Report
                                     P. Add Pallets to Stops


   F5=Shipping Document History      F7=EOJ     F9=Report Defaults
```

Figure 6: Specifying to Run the Report for Customer Shipments as a Load Sheet

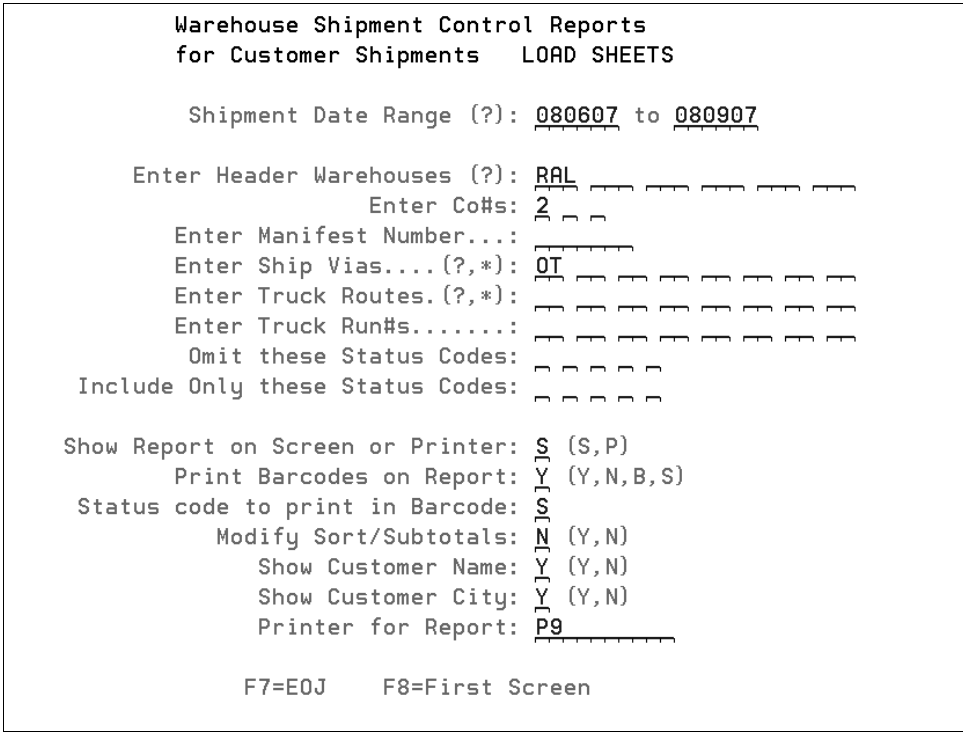4. Press **Enter**. The next screen to appear lets you enter the report parameters.

```
          Warehouse Shipment Control Reports
          for Customer Shipments   LOAD SHEETS

        Shipment Date Range (?): 080607 to 080907

     Enter Header Warehouses (?): RAL __ __ __ __ __
                  Enter Co#s: 2 _ _
       Enter Manifest Number...: _____
       Enter Ship Vias....(?,*): OT __ __ __ __ __ __ __
       Enter Truck Routes.(?,*): __ __ __ __ __ __ __ __
       Enter Truck Run#s.......: __ __ __ __ __ __ __ __
        Omit these Status Codes: _ _ _ _ _
 Include Only these Status Codes: _ _ _ _ _

 Show Report on Screen or Printer: S (S,P)
         Print Barcodes on Report: Y (Y,N,B,S)
   Status code to print in Barcode: S
           Modify Sort/Subtotals: N (Y,N)
               Show Customer Name: Y (Y,N)
               Show Customer City: Y (Y,N)
               Printer for Report: P9 _____

           F7=EOJ    F8=First Screen
```

Figure 7: Report Parameter Selection Screen

5. Enter the necessary parameters and press **Enter**. All the orders that match your report parameters appear.

```
                       L O A D   S H E E T
   Co#: 2     Warehouse: RAL                 Pink = Credit Held Orders
   Ship Dates:  6/06/07 -  8/09/07           Ship Truck
   Order#/Line Customer Name            Ship Dt  Via Rt St Rn Weight Sts Whs
   418291 0010 ANGELO'S FLOOR COVERINGS   6/13/07 OT            53  L
   418292 0010 ANGELO'S FLOOR COVERINGS   6/13/07 OT            66  L
   418292 0020 ANGELO'S FLOOR COVERINGS   6/13/07 OT             0  L
   418293 0010 ANGELO'S FLOOR COVERINGS   6/13/07 OT            53  O
   418293 0020 ANGELO'S FLOOR COVERINGS   6/13/07 OT            23  T   NYC
   418297 0010 ANGELO'S FLOOR COVERINGS   6/14/07 OT            53  O
   418297 0020 ANGELO'S FLOOR COVERINGS   6/14/07 OT             2  T   NYC
   418302 0010 ANGELO'S FLOOR COVERINGS   6/15/07 OT             0  O
   418343 0010 HARBOR FLOOR CENTER (RALEI  7/11/07 WC           86  O
   418343 0020 HARBOR FLOOR CENTER (RALEI  7/11/07 WC           43  O
   418385 0010 JOE SMITH                  7/28/07 OT           243  O
   418202 0010 ANGELO'S FLOOR COVERINGS   7/18/07 OT  AA 01      0  L
   418202 0030 ANGELO'S FLOOR COVERINGS   7/18/07 OT  AA 01    165  L
   418398 0010 CLAYTON FLOORING           8/09/07 CC  AA       121  O
   418398 0020 CLAYTON FLOORING           8/09/07 CC  AA         1  T   NYC
                                                              More...

       31 Order Lines                       Total Weight    2386


 F1=Print Rpt   F2=Fold   F5=Slct/Omit Wndw   F9=Ship Date & Routing   F10=Chg Status
```

Figure 8: Orders That Match Report Parameters

6. Press **F9** to enter or update the Ship Date and Routing information.

```
    8/07/07                Order Ship Date & Routing Updates          OR0000R
   16:39:04                                                           YV
                                                                   Password

   Enter Order# ............ ____0                                 .......

                                                     Ship Truck
   Order# Acct#  Customer Name            City      ShipDate Via  Route     FOB
   418291 202557 ANGELO'S FLOOR COVERINGS  CARY      6/13/07 OT             W
   418292 202557 ANGELO'S FLOOR COVERINGS  CARY      6/13/07 OT             W
   418293 202557 ANGELO'S FLOOR COVERINGS  CARY      6/13/07 OT             W
   418297 202557 ANGELO'S FLOOR COVERINGS  CARY      6/14/07 OT             W
   418302 202557 ANGELO'S FLOOR COVERINGS  CARY      6/15/07 OT             W
   418343 201000 HARBOR FLOOR CENTER (RALEI RALEIGH   7/11/07 WC            W
   418385 223411 JOE SMITH                 RALEIGH   7/28/07 OT             W
   418202 202557 ANGELO'S FLOOR COVERINGS  CARY      7/18/07 OT  AA 01      W
   418398 200789 CLAYTON FLOORING          CLAYTON   8/09/07 CC  AA         W
   418399 200789 CLAYTON FLOORING          CLAYTON   8/09/07 CC  AA         W
   418404 200789 CLAYTON FLOORING          CLAYTON   8/09/07 CC  AA         W
   416730 202557 ANGELO'S FLOOR COVERINGS  CARY      7/24/07 OT  AF 06 06   1
                                                              More...


 F5=Refresh   F7=Exit   F8=Password                                      H
```

Figure 9: Order Ship Date and Routing Updates

7. Enter a password and press **Enter** to go into update mode as shown below.

```
  8/07/07              Order Ship Date & Routing Updates            OR0000R
 16:40:01                                                           YV
                                                                  UPD MODE

 Enter Order# ............ █    0


                                                    Ship Truck
Order# Acct#  Customer Name            City         ShipDate Via  Route      FOB
418291 202557 ANGELO'S FLOOR COVERINGS CARY          6/13/07 OT   __ __ __    W
418292 202557 ANGELO'S FLOOR COVERINGS CARY          6/13/07 OT   __ __ __    W
418293 202557 ANGELO'S FLOOR COVERINGS CARY          6/13/07 OT   __ __ __    W
418297 202557 ANGELO'S FLOOR COVERINGS CARY          6/14/07 OT   __ __ __    W
418302 202557 ANGELO'S FLOOR COVERINGS CARY          6/15/07 OT   __ __ __    W
418343 201000 HARBOR FLOOR CENTER (RALEI RALEIGH     7/11/07 WC   __ __ __    W
418385 223411 JOE SMITH                 RALEIGH      7/28/07 OT   __ __ __    W
418202 202557 ANGELO'S FLOOR COVERINGS CARY          7/18/07 OT   AA 01 __    W
418398 200789 CLAYTON FLOORING          CLAYTON      8/09/07 CC   AA __ __    W
418399 200789 CLAYTON FLOORING          CLAYTON      8/09/07 CC   AA __ __    W
418404 200789 CLAYTON FLOORING          CLAYTON      8/09/07 CC   AA __ __    W
416730 202557 ANGELO'S FLOOR COVERINGS CARY          7/24/07 OT   AF 06 06    1
                                                                     More...


 F5=Refresh   F7=Exit   F8=Password   F9=Mass Update    F10=Route Solution  H
```

Figure 10: Update Mode - Order Ship Date and Routing Updates

8. From this screen you can make changes and/or corrections.

9. Press **F10** to enter the Route Solution program. This program assigns a **Route** number and packages the information so that it can be exported and understood by Roadnet.

```
                          Dancik International, Ltd.              CM4110R
    12:52:05                  Import Routed Solution                 XF


    Press Enter to begin.
              65 Routed solutions
     Shipment file . . :  /home/Dancik/UPS/Roadnet/RteExport/Orders.R



                           Alternate                          Order
     Location id      Order     Shipto?  Customer name        Weight    Route
     2123450000000    415188             STEVE'S CUSTOM FLOORS   000000663
     2220010000000    415227             TOM'S FLOORING          000001512
     2543211011236    415278       Y     JOHN DOE                000000030
     2123450000000    414906             STEVE'S CUSTOM FLOORS   000000630
     2123450909090    415186             DANCIK INSTALLATIONS    000001260
     2123450000000    415189             STEVE'S CUSTOM FLOORS   000001890
     2123450000000    415190             STEVE'S CUSTOM FLOORS   000000198
                                                                    More...


     Enter F4=Cancel              F7=Continue        F20=Create Geocode data
                                                     F23=Clear daily order file
     1 daily order(s) has an order address requiring Geocode processing.
```

Figure 11: Route Solution Screen

10. This screen is letting you know that 65 routed solutions have been placed in a file at `home/Dancik/UPS/Roadnet/RteExport/Orders.R`. This is the directory you will enter in the Roadnet application to import the routing solutions.

    The **Location id** field is the key to successfully routing orders to your customers. This code is established for each account number (by the shipto address) within Dancik Distribution and corresponds to the coordinates created during the Geocode process.

    Note: Press **F23** *to clear all the routing solutions.*

11. If an order uses a shipto address that is different from the normal (default) one, a **Y** appears in the **Alternate Shipto?** column. To get these alternate shipping addresses Geocoded (assigning a Location id) press **F20**. The system needs to assigns a Geocode for all of the orders that use an alternate shipping address. A message at the bottom of the screen lets you know how many codes were created and where they are located.

```
                              Dancik International, Ltd.                    CM4110R
      14:05:30                   Import Routed Solution                       XF


       Press Enter to begin.
               65 Routed solutions
        Shipment file . . :   /home/Dancik/UPS/Roadnet/RteExport/Orders.R



                               Alternate                              Order
      Location id       Order    Shipto?  Customer name               Weight    Route
      2123450000000     415188            STEVE'S CUSTOM FLOORS      000000663
      2220010000000     415227            TOM'S FLOORING             000001512
      2543211011236     415278      Y     JOHN DOE                   000000030
      2123450000000     414906            STEVE'S CUSTOM FLOORS      000000630
      2123450909090     415186            DANCIK INSTALLATIONS       000001260
      2123450000000     415189            STEVE'S CUSTOM FLOORS      000001890
      2123450000000     415190            STEVE'S CUSTOM FLOORS      000000198
                                                                            More...


      Enter F4=Cancel                 F7=Continue         F20=Create Geocode data
                                                          F23=Clear daily order file
      ( 1 records written to loc.txt and route.txt in /home/Dancik/UPS/Roadnet/Geoco + )
```

Figure 12: Alternate Shipto Addresses Geocoded

12. Press **Enter** to accept the suggested truck routes, then press **F7** to return to the Update screen.

> Note: *When you have alternate shipto addresses that get Geocoded via the* **F20** *function, you must import the loc.text and route.txt files before you send the routing solutions to Roadnet.*

13. When the routed solution is opened in the Dancik system, the routes are displayed.

```
                                Dancik International, Ltd.               CM4110R
     14:05:30                    Import Routed Solution                   XF


      Press Enter to begin.
                 65 Routed solutions
      Shipment file . . :  /home/Dancik/UPS/Roadnet/RteExport/Orders.R




                            Alternate                           Order
     Location id       Order     Shipto?  Customer name        Weight    Route
     2123450000000     415188             STEVE'S CUSTOM FLOORS 000000663 A1 01
     2220010000000     415227             TOM'S FLOORING        000001512 A1 01
     2543211011236     415278       Y     JOHN DOE              000000030 A1 02
     2123450000000     414906             STEVE'S CUSTOM FLOORS 000000630 A1 01
     2123450909090     415186             DANCIK INSTALLATIONS  000001260 A1 02
     2123450000000     415189             STEVE'S CUSTOM FLOORS 000001890 A1 02
     2123450000000     415190             STEVE'S CUSTOM FLOORS 000000198 A1 02
                                                                          More...


     Enter F4=Cancel                  F7=Continue          F20=Create Geocode data
                                                           F23=Clear daily order file
     1 records written to loc.txt and route.txt in /home/Dancik/UPS/Roadnet/Geoco +
```

Figure 13: Routed Solutions - With Optimized Routes Displayed

File Layouts

In order to seamlessly send information to Roadnet the following layout configurations must be used.

Note: Please note that the name of the import order file must be the same as the send orders file.

Orders File Set-up

Within Roadnet, the information entered in the Import Orders Layout screen should match the following: .

Field name	Offset	Length
locationCode	0	15
orderNumber	15	10
customerName	25	30
orderWeight	55	9
route	64	2
sequence	66	2

The layouts shown above directly relate to the file layout at the top of the Roadnet screen.
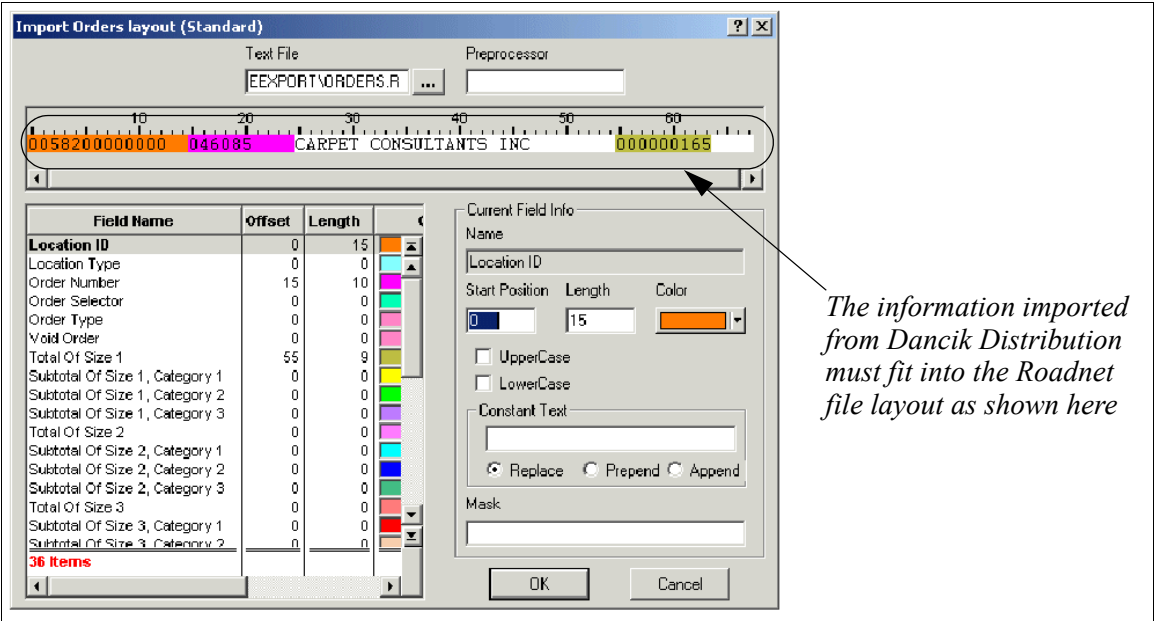

Figure 14: Import Orders Layout

Send Orders Layout

The name of the Send Orders Layout file must be the same as the Import Orders Layout. The field configurations are also the same.
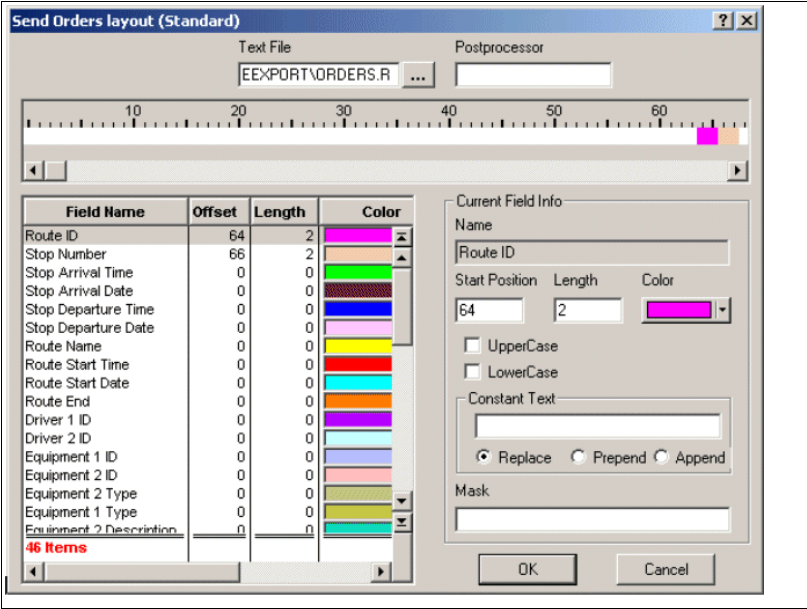

Figure 15: Send Orders Layout

Location File

Use the following configurations for a location file.

Field name	Offset	Length
LOCID	0	15
LOCNAME	15	30
ADDRESS1	45	30
ADDRESS2	75	30
CITY	105	30
STATE	135	30
ZIP	165	9
PHONE	174	10
FAX#	184	10
CUSTRATING	194	1
TERMCODE	195	1
TERMDAYS	196	3

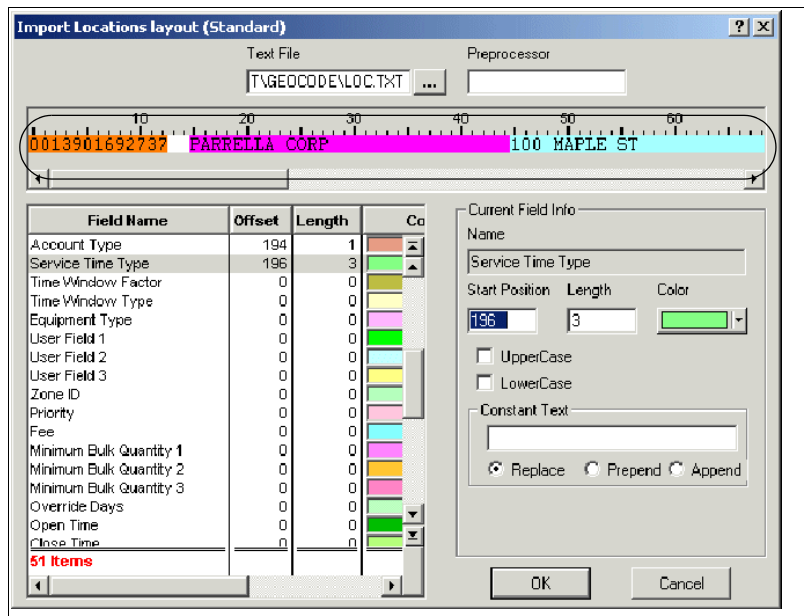The layouts shown above directly relate to the file layout at the top of the Roadnet screen.

Figure 16: Roadnet - Standard Import Locations Layout Screen