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**Central Florida Regional Planning Model**  
**Version 6.0.1**  
**Draft SubArea Application**

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**Prepared for the**  
**Florida Department of Transportation**



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## Table of Contents

1. SUBAREA APPLICATION .....	1
1. Catalog Keys .....	1
2. Design and Use of the SubArea Application in the Updated GUI.....	2
1. Design of the Updated GUI.....	2
2. Use of the SubArea Application.....	2
3. Application & Script Modifications.....	6

## List of Tables

Table 1-1: SubArea Application Catalog Key Definitions.....	1
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## List of Figures

Figure 1-1: SubArea Application Keys.....	1
Figure 1-2: SubArea Application GUI Page 1 .....	2
Figure 1-3: Select District/Zone Option.....	3
Figure 1-4: User Defined Subarea Steps.....	3
Figure 1-5: User Defined Subarea Step 1 .....	4
Figure 1-6: User Defined Subarea Step 2 .....	5
Figure 1-7: User Defined Subarea Step 3 .....	5
Figure 1-8: User Defined Subarea Step 4 .....	6
Figure 1-9: DISTRIBUTION Application .....	6
Figure 1-10: SubArea Application.....	7
Figure 1-11: Mode Choice Application .....	8

## List of Appendices

A. SUBAREA APPLICATION SCRIPTS	
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## List of Acronyms

<b>CFRPM</b>	Central Florida Regional Planning Model
<b>FDOT</b>	Florida Department of Transportation
<b>GUI</b>	Graphical User Interface
<b>MPO</b>	Metropolitan Planning Organization
<b>SERPM</b>	South East Florida Regional Planning Model
<b>TAZ</b>	Transportation analysis zone
<b>TPO</b>	Transportation Planning Organization

## 1. SUBAREA APPLICATION

The FDOT District 5 requested a Sub Area application be incorporated into the CFRPM v6.0.1 to allow users to reduce model run times. A review of models in the state found that the SERPM v6.5.4 already had a good sub area application in it therefore it was used the basis for this new application.

The following sections describe how the SubArea application was created in the CFRPM and how to use it.

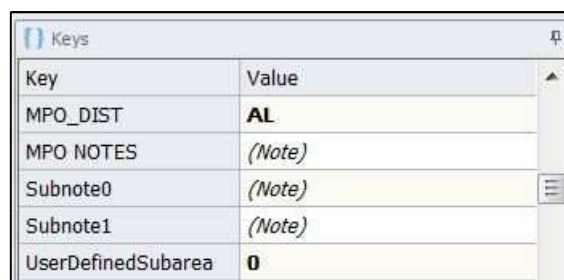
### 1. Catalog Keys

There are 3 new keys required for the SubArea application which include 2 note keys and 1 “check box” key. 2 other keys are used in the application that already exist and were documented in the *Graphical User Interface & MPO Reporting Tech Memo*. The existing keys are shown as the first 2 keys below. The 5 keys used in the SubArea application are described and shown in Table 1-1 and are found in the model as shown in Figure 1-1.

Table 1-1: SubArea Application Catalog Key Definitions

Key	Definition
MPO_DIST	Key used to designate how the user wishes the districting to be run. Setup as a drop down list to avoid errant entries in the GUI.
MPO NOTES	Note key used to define the districting options for selection in the MPO_DIST key in the GUI.
Subnote0	New Note key used as a heading for the User-Defined Subarea/Windowed Network section of the GUI.
Subnote1	New Note key used to define the steps the user must take to execute their own Subarea for selection.
UserDefinedSubarea	New key used to select the users Defined Windowed Subarea step in the GUI.

Figure 1-1: SubArea Application Keys



Key	Value
MPO_DIST	AL
MPO NOTES	(Note)
Subnote0	(Note)
Subnote1	(Note)
UserDefinedSubarea	0

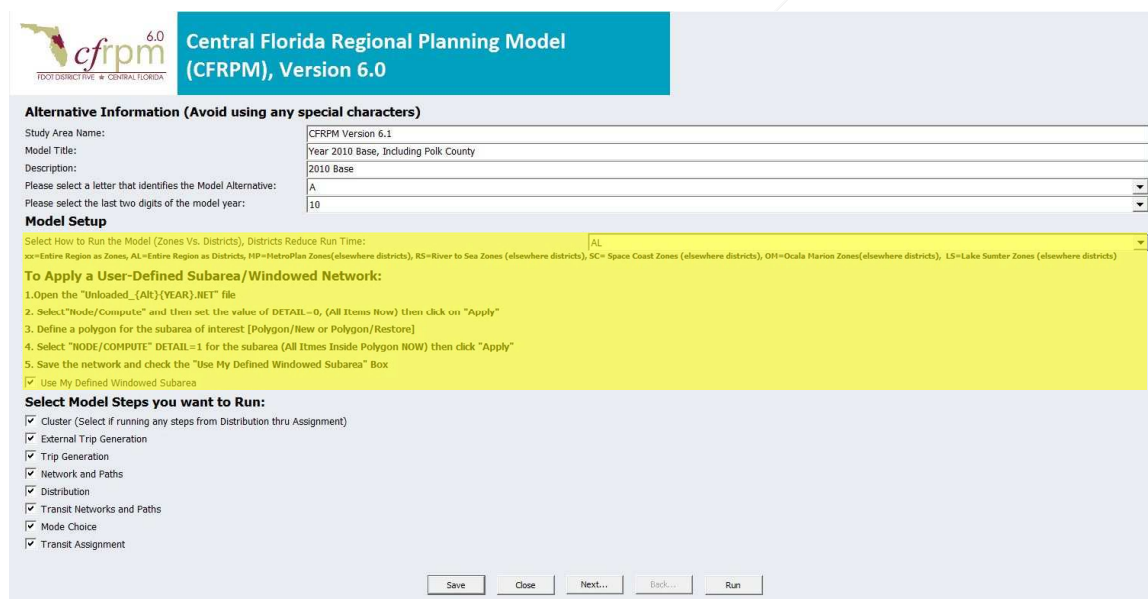
## 2. Design and Use of the SubArea Application in the Updated GUI

In order to implement the new SubArea application, the design of the GUI needed to be updated. This section discusses those updates and explains how to use the new application.

### 1. Design of the Updated GUI

The implementation of the 5 keys of the SubArea application immediately follow the “MODEL SETUP” note on Page 1 of the GUI and are shown in Figure 1-2.

Figure 1-2: SubArea Application GUI Page 1



**Central Florida Regional Planning Model (CFRPM), Version 6.0**

**Alternative Information (Avoid using any special characters)**

Study Area Name: CFRPM Version 6.1

Model Title: Year 2010 Base, Including Polk County

Description: 2010 Base

Please select a letter that identifies the Model Alternative: A

Please select the last two digits of the model year: 10

**Model Setup**

Select How to Run the Model (Zones Vs. Districts), Districts Reduce Run Time: AL

xx=Entire Region as Zones, AL=Entire Region as Districts, HP=MetroPlan Zones (elsewhere districts), RS=River to Sea Zones (elsewhere districts), SC=Space Coast Zones (elsewhere districts), OH=Ocala Marion Zones (elsewhere districts), LS=Lake Sumter Zones (elsewhere districts)

**To Apply a User-Defined Subarea/Windowed Network:**

1. Open the "Unloaded\_{ALT}\YEAR.NET" file
2. Select "Mode/Compute" and then set the value of DETAIL=0, (All Items Now) then click on "Apply"
3. Define a polygon for the subarea of interest (Polygon/New or Polygon/Restore)
4. Select "MODE/COMPUTE" DETAIL=1 for the subarea (All Items Inside Polygon NOW) then click "Apply"
5. Save the network and check the "Use My Defined Windowed Subarea" Box

☒ Use My Defined Windowed Subarea

**Select Model Steps you want to Run:**

☒ Cluster (Select if running any steps from Distribution thru Assignment)

☒ External Trip Generation

☒ Trip Generation

☒ Network and Paths

☒ Distribution

☒ Transit Networks and Paths

☒ Mode Choice

☒ Transit Assignment

Save Close Next... Back... Run

### 2. Use of the SubArea Application

The SubArea section of the GUI allows the user to select how the districting is implemented during the model run

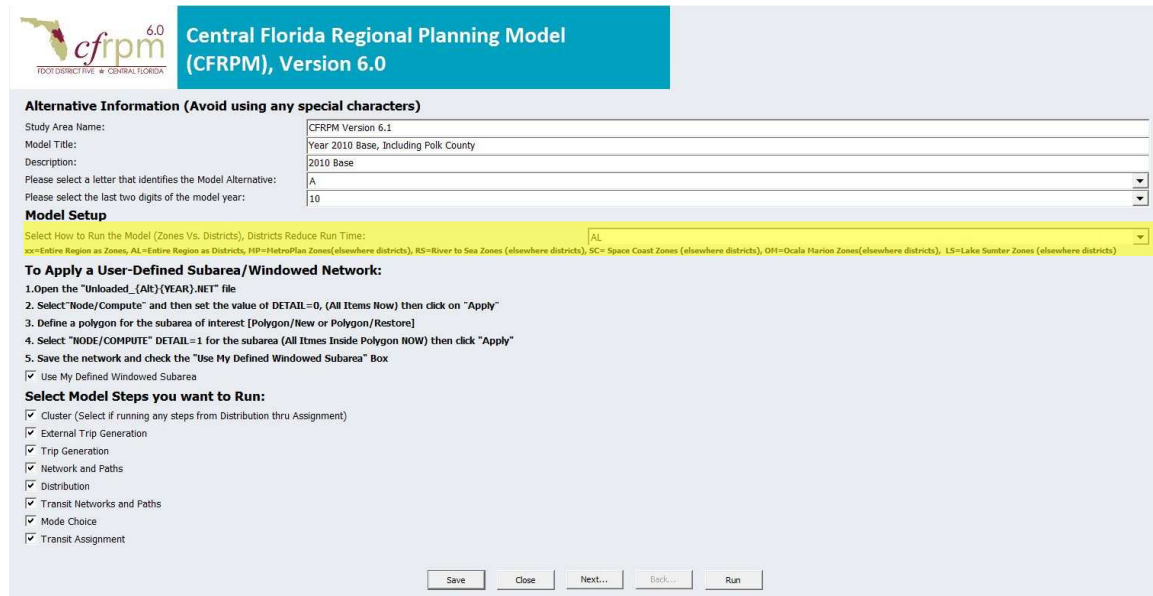
The model can be run 4 different ways and is accomplished through a drop down list for the first 3 options and through a polygon procedure for the last.

1. The user can select a specific MPO/TPO area. Once selected, the MPO/TPO area is run as TAZs with the rest of the model run as districts.
2. The user can select the entire region as TAZ. Once selected, the whole model area is run as TAZs.
3. The user can select the entire region as districts. Once selected, the whole model area is run as districts.
4. The user can define their own SubArea. Once selected, the model is run with the selected SubArea as TAZs with the rest of the model run as districts.

## Section 1: SubArea Application

To run the model by MPO, the entire region as DISTRICTS or TAZs the user simply selects that option from the drop down menu. As an example, Figure 1-3 below shows the selection of “AL” to run the entire model as Districts.

Figure 1-3: Select District/Zone Option



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Study Area Name: CFRPM Version 6.1

Model Title: Year 2010 Base, Including Polk County

Description: 2010 Base

Please select a letter that identifies the Model Alternative: A

Please select the last two digits of the model year: 10

**Model Setup**

Select How to Run the Model (Zones Vs. Districts), Districts Reduce Run Time: AL

xx=Entire Region as Zones, AL=Entire Region as Districts, HP=MetroPlan Zones (elsewhere districts), RS=River to Sea Zones (elsewhere districts), SC=Space Coast Zones (elsewhere districts), OH=Ocala Marion Zones (elsewhere districts), LS=Lake Sumter Zones (elsewhere districts)

**To Apply a User-Defined Subarea/Windowed Network:**

1. Open the "Unloaded\_{Alt}{YEAR}.NET" file
2. Select "Node/Compute" and then set the value of DETAIL=0, (All Items Now) then click on "Apply"
3. Define a polygon for the subarea of interest [Polygon/New or Polygon/Restore]
4. Select "NODE/COMPUTE" DETAIL=1 for the subarea (All Items Inside Polygon NOW) then click "Apply"
5. Save the network and check the "Use My Defined Windowed Subarea" Box

☒ Use My Defined Windowed Subarea

**Select Model Steps you want to Run:**

☒ Cluster (Select if running any steps from Distribution thru Assignment)

☒ External Trip Generation

☒ Trip Generation

☒ Network and Paths

☒ Distribution

☒ Transit Networks and Paths

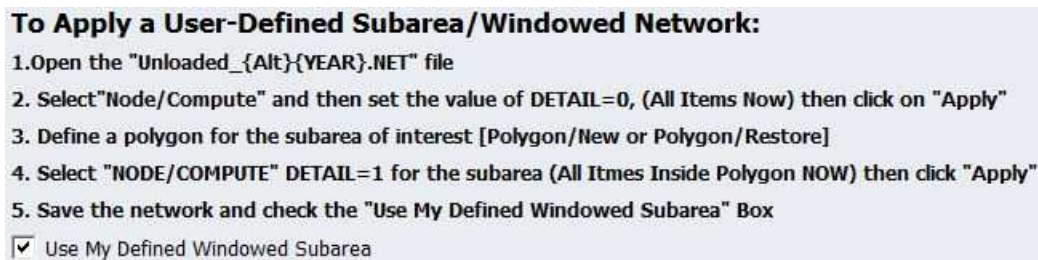
☒ Mode Choice

☒ Transit Assignment

Save Close Next... Back... Run

To run the model with a user Defined Windowed SubArea the user follows the instructions located under the heading “To Apply a User-Defined Subarea/Windowed Network”. Figure 1-4 shows these steps.

Figure 1-4: User Defined Subarea Steps



**To Apply a User-Defined Subarea/Windowed Network:**

1. Open the "Unloaded\_{Alt}{YEAR}.NET" file
2. Select "Node/Compute" and then set the value of DETAIL=0, (All Items Now) then click on "Apply"
3. Define a polygon for the subarea of interest [Polygon/New or Polygon/Restore]
4. Select "NODE/COMPUTE" DETAIL=1 for the subarea (All Items Inside Polygon NOW) then click "Apply"
5. Save the network and check the "Use My Defined Windowed Subarea" Box

☒ Use My Defined Windowed Subarea

Figures 1-5 through 1-7 show steps 1-4.

Figure 1-5: User Defined Subarea Step 1

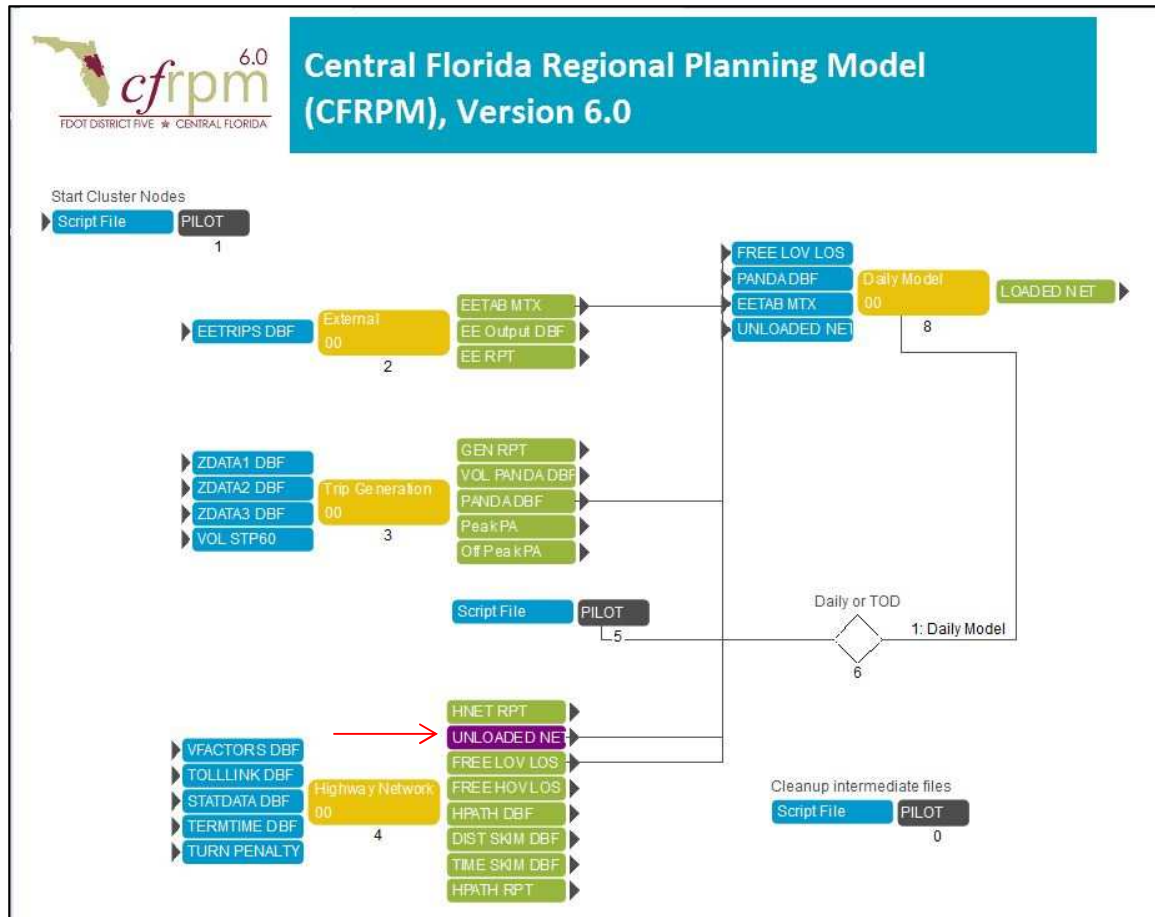


Figure 1-6: User Defined Subarea Step 2

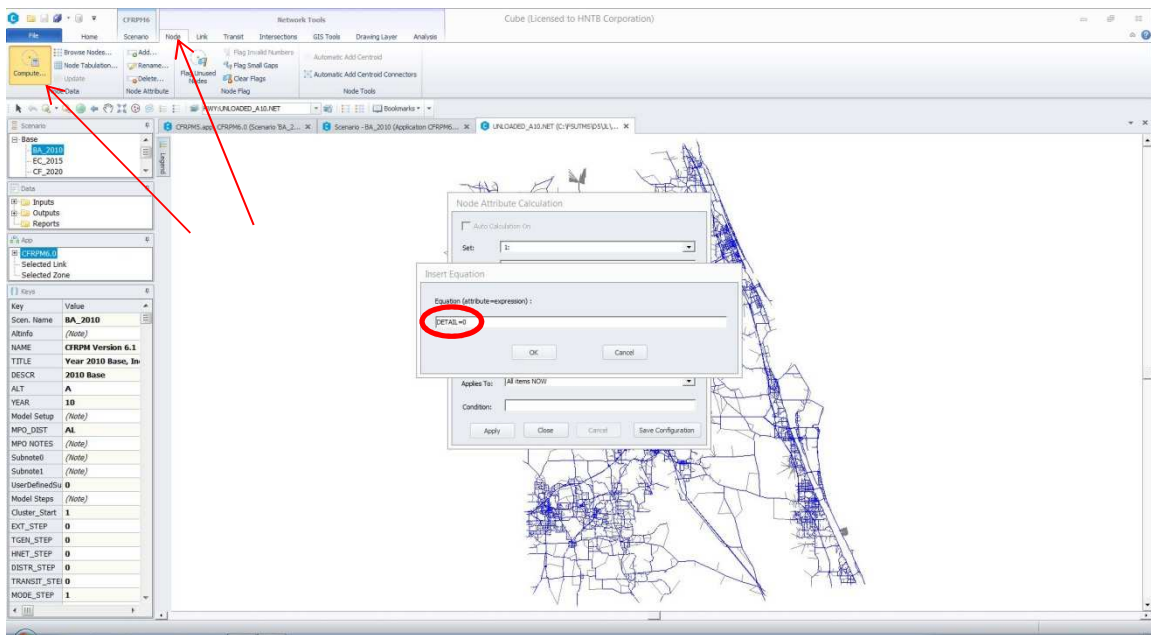


Figure 1-7: User Defined Subarea Step 3

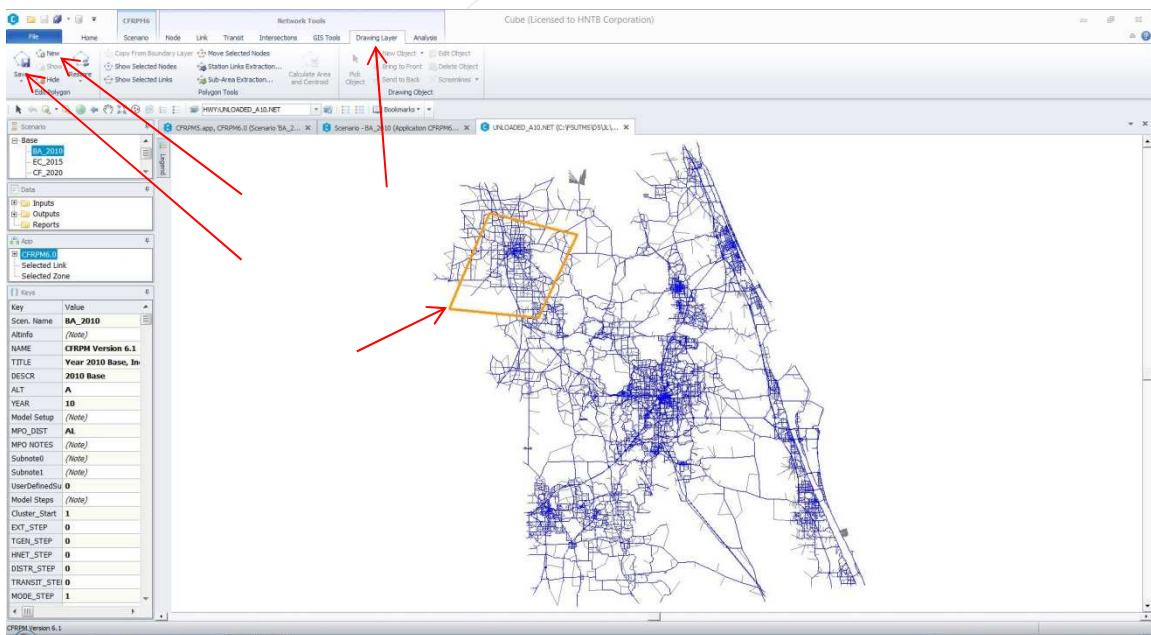
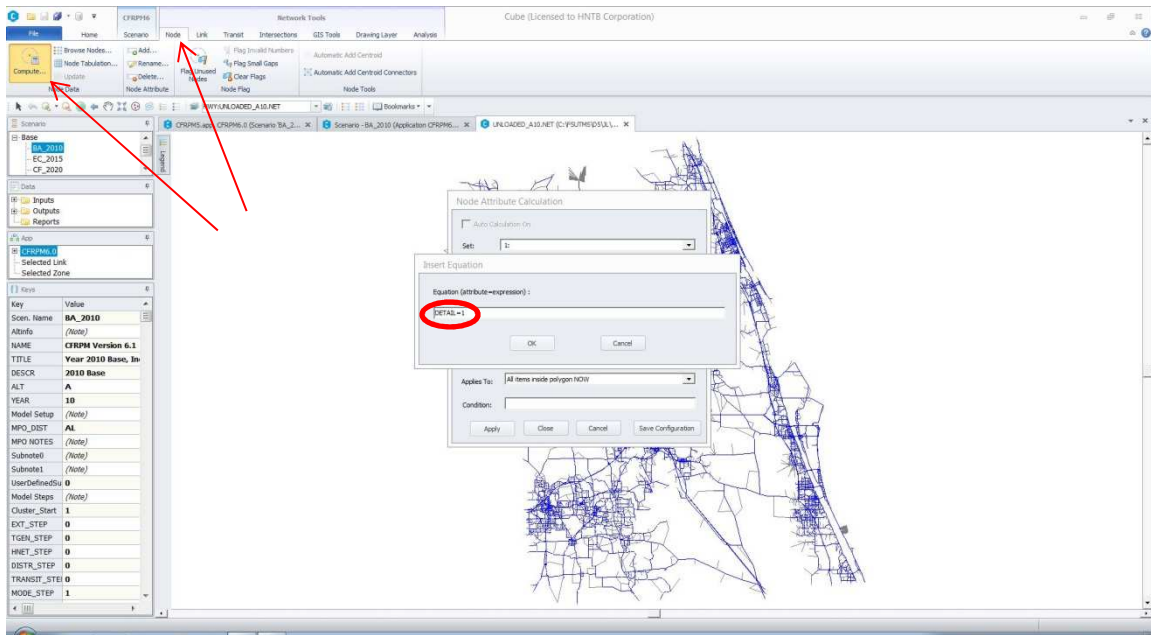




Figure 1-8: User Defined Subarea Step 4

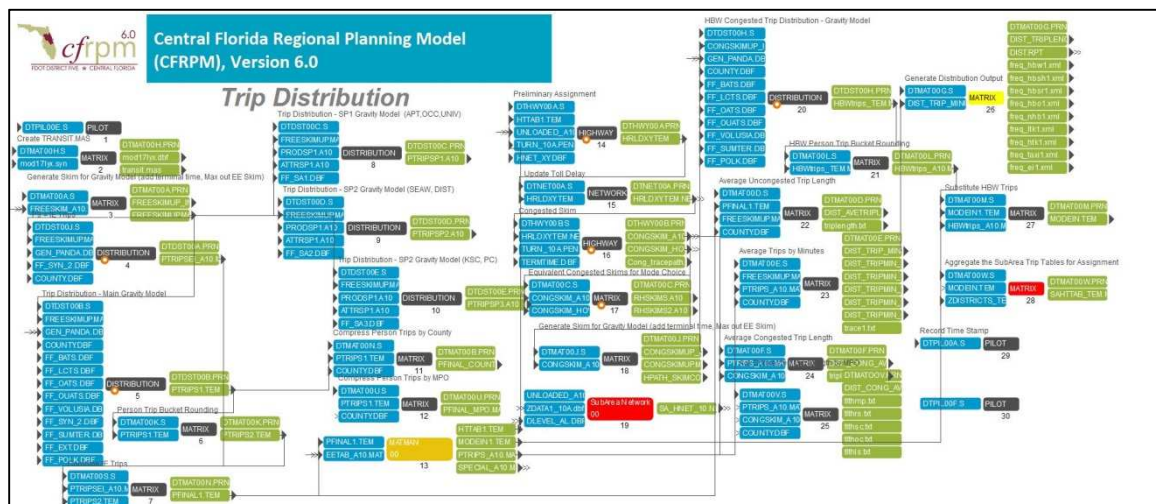


The final step is the select the “check box” for “Use My Defined Windowed Subarea” on the GUI.

### 3. Application & Script Modifications

In order to accommodate the use of the SubArea application in the model, modifications were made to the DISTRIBUTION and MODE CHOICE applications.

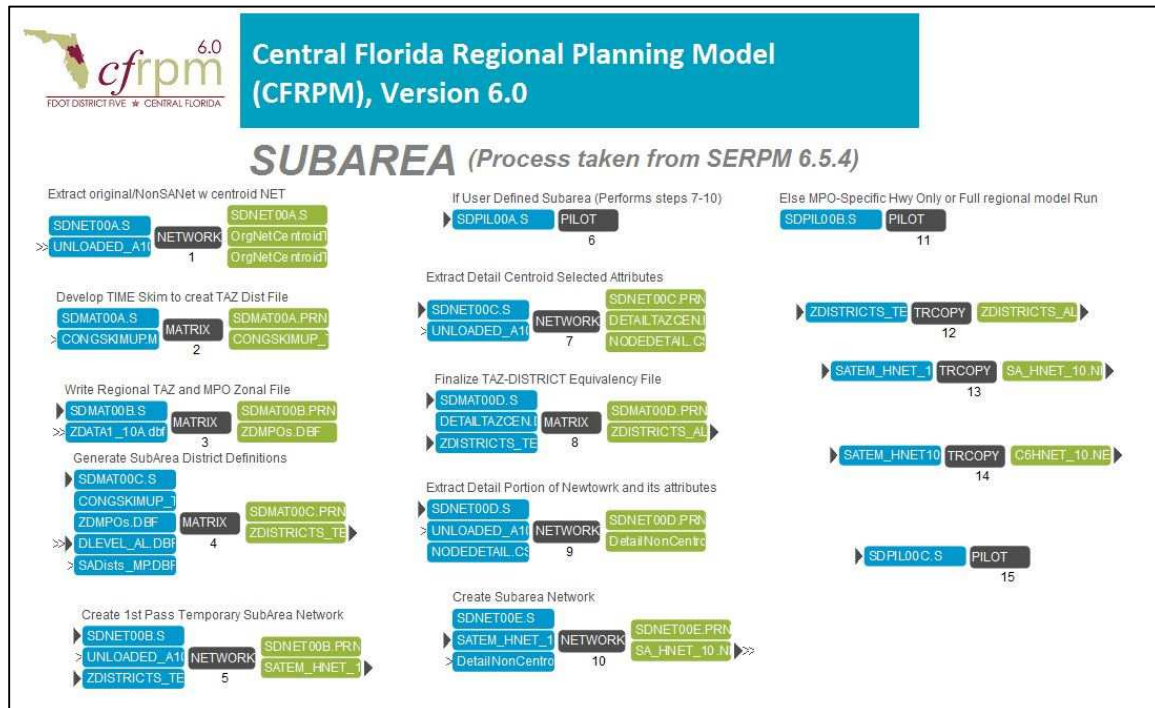
Figure 1-9: DISTRIBUTION Application



The RED boxes show the modified steps.

The SubArea application was inserted as step 19 in DISTRIBUTION. This application is where the networks are configured based on the user's selection for SubArea windowing. See Figure 1-10 below. All scripts are contained in Appendix A.

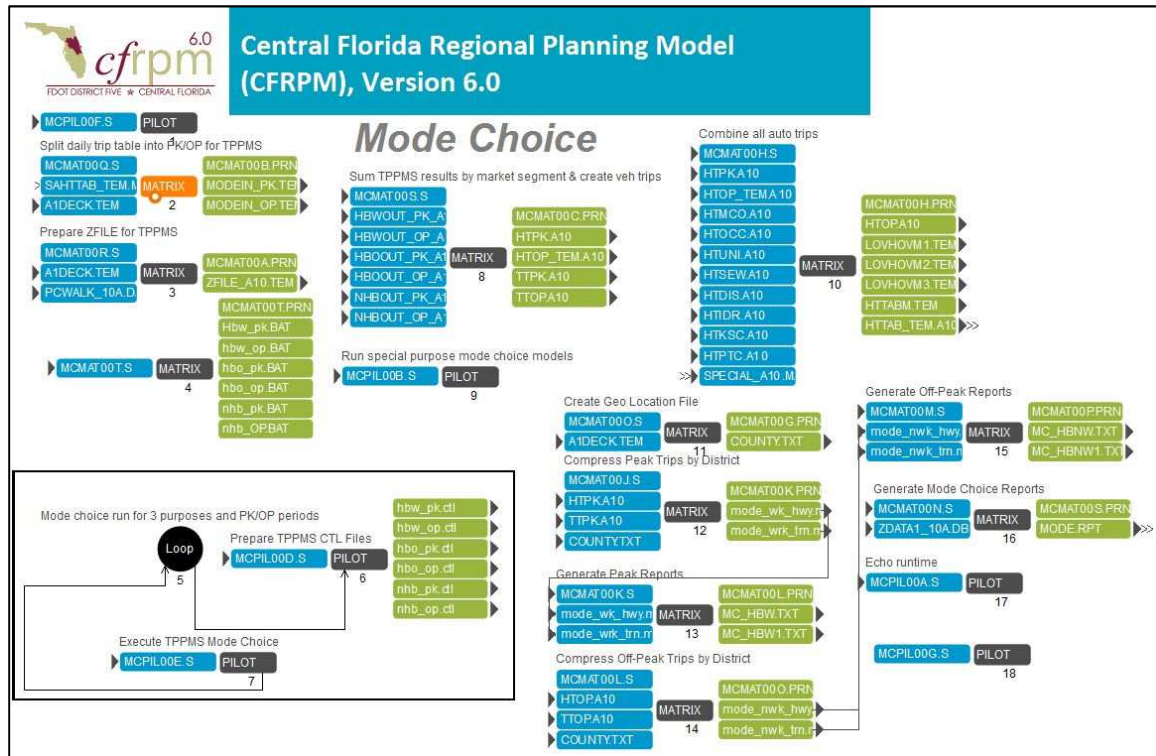
Figure 1-10: SubArea Application



Step 28 of the DISTRIBUTION application was also added to create the SubArea trip tables for assignment. See Figure 1-9.

The final modification in is the Mode Choice Application. Step 2 was modified to sue the output trip table from the SubArea application named "SAHTTAB\_TEM.MAT". See Figure 1-11 for the Mode Choice application. The modified Script is located in Appendix A.

Figure 1-11: Mode Choice Application



A. SubArea Application Scripts



```
1  ; Do not change filenames or add or remove FILEI/FILEO statements using an
2  ;SDNET00A.S
3  RUN PGM=NETWORK PRNFILE="{CATALOG_DIR}\Cube\SDNET00A.S" MSG='Extract
4  original/NonSANet w centroid NET'
5  FILEI LINKI[2] = "{SCENARIO_DIR}\Output\UNLOADED_{ATL}{YEAR}.NET"
6  FILEO NETO = "{SCENARIO_DIR}\Output\Temp\OrgNetCentroidTime.NET"
7  FILEO LINKO = "{SCENARIO_DIR}\Output\Temp\OrgNetCentroidTime.TEM",
8  include=a,b,TimeOrg
9  PROCESS PHASE=LINKMERGE
10     if ((a >5406)& (b >5406)) delete
11     TimeOrg=Time
12 ENDPROCESS
13 ENDRUN
14
```

```
1  ; Do not change filenames or add or remove FILEI/FILEO statements using an
   editor. Use Cube/Application Manager.
2  ;SDMAT00A.S
3  RUN PGM=MATRIX PRNFILE="{CATALOG_DIR}\Cube\SDMAT00A.PRN" MSG='Develop TIME Skim
   to creat TAZ Dist File'
4  FILEI MATI[1] = "{SCENARIO_DIR}\Output\Temp\CONGSKIMUP.MAT"
5  FILEO MATO[1] = "{SCENARIO_DIR}\Output\Temp\CONGSKIMUP_TEM.MAT",
6  mo=1,NAME=TIME
7
8  PAR ZONEMSG=100
9  MW[1]=mi.1.1*1      ; TIME With Terminal Time (in Minutes) - Step Not really
   needed as TT is already in Minutes. Done for consistency with SERPM
10 MW[1][I]=1000000    ; QUICKER (WW)
11
12 ENDRUN
13
```

```

1  ; Do not change filenames or add or remove FILEI/FILEO statements using an
    editor. Use Cube/Application Manager.
2  ;SDMAT00B.S
3  RUN PGM=MATRIX PRNFILE="{CATALOG_DIR}\Cube\SDMAT00B.PRN" MSG='Write Regional
    TAZ and MPO Zonal File'
4  FILEI ZDATI[1] = "{SCENARIO_DIR}\Input\ZDATA1_{YEAR}{ALT}.dbf"
5  FILEO RECO[1] = "{SCENARIO_DIR}\Output\ZDMPOs.DBF",
6  form=10.0, FIELDS=N,MPO
7  PAR ZONES={ZONES}
8  PAR ZONEMSG=100
9
10
11 ;Get Zonal TAZ Info as Node Record...
12 N=ZI.1.TAZ_REG
13 MPO=ZI.1.MPO
14
15 _ztemp=_ztemp+1
16
17 ;Set Data for Indian River and Polk Internal and Dummy Zones
18
19 if(z>=4601 & z<={ZONESI})
20     N=z
21
22     MPO=0
23
24 endif
25
26 ;Set Data for MetroPlan Orladndo Internal and Dummy Zones
27 if(z>=1 & z<=1400)
28     N=z
29
30     MPO=1
31
32 endif
33
34 ;Set Data for Volusia Internal and Dummy Zones
35
36 if(z>=1801 & z<=2900)
37     N=z
38
39     MPO=2
40
41 endif
42
43 ;Set Data for Flagler Internal and Dummy Zones
44
45 if(z>=4401 & z<=4600)
46     N=z
47
48     MPO=2
49 ENDIF
50
51 ;Set Data for Space Coast Internal and Dummy Zones
52
53 if(z>=2901 & z<=3700)
54     N=z
55
56     MPO=3
57
58 endif
59
60 ;Set Data for Ocala Marion Internal and Dummy Zones

```

```
61
62  if(z>=3701 & z<=4200)
63      N=z
64
65      MPO=4
66
67  endif
68
69  ;Set Data for Lake Internal and Dummy Zones
70
71  if(z>=1401 & z<=1800)
72      N=z
73
74      MPO=5
75
76  endif
77
78
79  ;Set Data for Sumter Internal and Dummy Zones
80
81  if(z>=4201 & z<=4400)
82      N=z
83
84      MPO=5
85
86  ENDIF
87
88  WRITE RECO=1
89
90  ;External Zones
91  if(z={ZONESI})
92      loop jj={ZONESI}+1,{ZONES}
93          N=jj
94
95          if (N>=5351 & N<=5357)                ;Indian River Polk Externals
96              MPO=0
97          ENDIF
98
99          if (N>=5361 & N<=5377)                ;Polk Externals
100              MPO=0
101          ENDIF
102
103          if (N>=5358 & N<=5360)                ;MetroPlan Orlando Externals
104              MPO=1
105          endif
106
107          if (N>=5401 & N<=5406)                ;River to Sea Externals
108              MPO=2
109          endif
110
111          if (N>=5384 & N<=5400)                ;Ocala Marion Externals
112              MPO=4
113          endif
114
115          if (N>=5378 & N<=5383)                ;Lake Sumter Externals
116              MPO=5
117          endif
118
119
120      WRITE RECO=1
121
122  endloop
```



---

```
123  ENDF
124  ENDRUN
125
```

```

1  ; Do not change filenames or add or remove FILEI/FILEO statements using an
    editor. Use Cube/Application Manager.
2  ;SDMAT00C.S
3  RUN PGM=MATRIX PRNFILE="{CATALOG_DIR}\Cube\SDMAT00C.PRN" MSG='Generate SubArea
    District Definitions'
4
5  FILEI ZDATI[1] = "{SCENARIO_DIR}\Output\ZDMPOs.DBF",
6      z=N
7  FILEI LOOKUPI[1] = "{SCENARIO_DIR}\Input\DLEVEL_{MPO_DIST}.DBF"
8  FILEI LOOKUPI[2] = "{SCENARIO_DIR}\Input\SADists_MP.DBF"
9  FILEO RECO[1] = "{SCENARIO_DIR}\Output\Temp\ZDISTRICTS_TEM_{MPO_DIST}.DBF",
10     Fields= TAZ,DTAZ,NEAR,SADIST,MPO
11  FILEI MATI[1] = "{SCENARIO_DIR}\Output\Temp\CONGSKIMUP_TEM.MAT"
12
13  LOOKUP LOOKUPI=2, ; One record per District
14     NAME=DCENTROID,
15     LOOKUP[1]=CENTERTAZ, RESULT=SADIST,
16     LOOKUP[2]=CENTERTAZ, RESULT=CENTERTAZ,
17     LOOKUP[3]=CENTERTAZ, RESULT=MPOCODE,
18     LOOKUP[4]=CENTERTAZ, RESULT=SADST_TW,
19     FAIL=0,0,0
20
21  LOOKUP LOOKUPI=1, ; One record per MPO
22     NAME=LEVEL,
23     LOOKUP[1]=MPO, RESULT=DLEVEL, ; 1=District Level, 0=TAZ Level
24     FAIL=0,0,0
25
26  Parameters ZONES={ZONES}
27  PAR ZONMSG=100
28
29
30  near=1000
31  TAZ=i
32  MPO=zi.1.MPO
33  mylevel=LEVEL(1,MPO)
34  IF(i>{ZONESI}) MPO=99
35  jloop
36     place=DCENTROID(2,j)
37     thisdist=DCENTROID(1,j)
38     if(place<>0)
39         if(i=place)
40             near=0
41             DTAZ=j
42             SADIST=thisdist
43         else
44             ctime=mi.1.time[j]
45             if(ctime < near)
46                 near=ctime
47                 DTAZ=j
48                 SADIST=thisdist
49             endif
50         endif
51     endif
52  endjloop
53  if(mylevel=0) DTAZ=i ; At the TAZ level
54  if(near<1000 & MPO>=0) WRITE RECO=1 ;added = in MPO>0 for Polk and Indian
    River zones 4601-5350
55
56  ENDRUN
57

```

```

1  ; Do not change filenames or add or remove FILEI/FILEO statements using an
    editor. Use Cube/Application Manager.
2  ;SDNET00B.S
3  RUN PGM=NETWORK PRNFILE="{CATALOG_DIR}\Cube\SDNET00B.PRN" MSG='Create 1st Pass
    Temporary SubArea Network'
4  FILEI LINKI[2] = "{SCENARIO_DIR}\Output\UNLOADED_{ALT}{YEAR}.NET"
5  FILEI LOOKUPI[1] = "{SCENARIO_DIR}\Output\Temp\ZDISTRICTS_TEM_{MPO_DIST}.DBF"
6  FILEO NETO = "{SCENARIO_DIR}\Output\SATEM_HNET_{YEAR}.NET"
7
8  array gone=99000
9
10 PROCESS PHASE=NODEMERGE
11     LOOKUP LOOKUPI=1,
12         NAME=SADIST,
13         LOOKUP[1]=TAZ, RESULT=DTAZ,
14         FAIL[3]=0
15     if(N<={ZONES}) _NN=_NN+1
16     if(N<={ZONES}) SA_Centroid=1
17     IF((N<>SADIST(1,N)) & (N<={ZONESI}))
18
19     ;| (NODETYPE=3,4)) ; for SERPM Only
20     gone[N]=1
21     _dd=_dd+1
22     delete
23     endif
24 ENDPROCESS
25
26 PROCESS PHASE=LINKMERGE
27     _AD=gone[a]
28     _BD=gone[b]
29     if(_AD>0 | _BD>0)
30         print list= A(5.0),B(5.0),' deleted'
31         delete
32     endif
33 ENDPROCESS
34
35 PROCESS PHASE=SUMMARY
36     _LL=_NN-_dd
37     print list=' ***** Deleted ',_dd(4.0),' nodes out of a total of ',_NN(4.0),
    ' leaving ',_LL(4.0),' active centroids'
38 ENDPROCESS
39
40
41
42
43 ENDRUN
44

```

---

```
1  ; Do not change filenames or add or remove FILEI/FILEO statements using an
2  editor. Use Cube/Application Manager.
3  ;SDPIL00A.S
4  if ({UserDefinedSubarea}=1) ; User defined Subarea
5
```

```
1  ; Do not change filenames or add or remove FILEI/FILEO statements using an
   editor. Use Cube/Application Manager.
2  ;SDNET00C.S
3  RUN PGM=NETWORK PRNFILE="{CATALOG_DIR}\Cube\SDNET00C.PRN" MSG='Extract Detail
   Centroid Selected Attributes'
4  FILEO PRINTO[1] = "{SCENARIO_DIR}\Output\NODEDETAIL.CSV"
5  FILEO NODEO = "{SCENARIO_DIR}\Output\Temp\DETAILTAZCEN.DBF",
6      INCLUDE=TAZ,DTAZ,NEAR,SADIST,MPO,DETAIL
7  FILEI LINKI[1] = "{SCENARIO_DIR}\Output\UNLOADED_{ALT}{YEAR}.NET"
8
9  PROCESS PHASE=NODEMERGE
10 ; -----
11 ; NEXT STEP IS TO CAPTURE THE DETAIL ATTRIBUTE ON THE NODES TO
12 ; SAVE THE USER NEEDING TO COMPUTE IT FOR LINKS TOO
13 PRINT CSV=T, LIST=N(6.0),DETAIL(2.0), PRINTO=1
14 ; -----
15 IF (DETAIL=1 & N <={ZONES})
16     TAZ=NI.1.N
17     DTAZ=NI.1.N
18     NEAR=0
19     SADIST=5000+TAZ
20     MPO=NI.1.MPO
21 ELSE
22     DELETE
23 ENDIF
24 ENDPROCESS
25
26 ENDRUN
27
```

```
1  ; Do not change filenames or add or remove FILEI/FILEO statements using an
   editor. Use Cube/Application Manager.
2  ;SDMAT00D.S
3  RUN PGM=MATRIX PRNFILE="{CATALOG_DIR}\Cube\SDMAT00D.PRN" MSG='Finalize
   TAZ-DISTRICT Equivalency File'
4
5  FILEI ZDATI[2] = "{SCENARIO_DIR}\Output\Temp\ZDISTRICTS_TEM_{MPO_DIST}.DBF",
6      Z=TAZ
7  FILEI ZDATI[1] = "{SCENARIO_DIR}\Output\Temp\DETAILTAZCEN.DBF",
8      z=taz
9  FILEO RECO[1] = "{SCENARIO_DIR}\Output\ZDISTRICTS_{MPO_DIST}.DBF",
10     FIELDS=TAZ,DTAZ,NEAR,SADIST,MPO,DETAIL
11
12  PAR ZONES={ZONES}
13  PAR ZONMSG=100
14
15  ;xxxxxxx
16  TAZ=ZI.2.TAZ
17  DETAIL=ZI.1.DETAIL
18
19  IF (DETAIL=1)
20      DTAZ=ZI.1.DTAZ
21      NEAR=ZI.1.NEAR
22      SADIST=ZI.1.SADIST
23      COUNTY=ZI.1.MPO
24      DETAIL=ZI.1.DETAIL
25  Else
26      DTAZ=ZI.2.DTAZ
27      NEAR=ZI.2.NEAR
28      SADIST=ZI.2.SADIST
29      COUNTY=ZI.2.MPO
30      DETAIL=0
31  ENDIF
32
33  WRITE RECO=1
34  ENDRUN
35
```

```
1  ; Do not change filenames or add or remove FILEI/FILEO statements using an
   editor. Use Cube/Application Manager.
2  ;SDNET00D.S
3  RUN PGM=NETWORK PRNFILE="{CATALOG_DIR}\Cube\SDNET00D.PRN" MSG='Extract Detail
   Portion of Newtowrk and its attributes'
4  FILEI LOOKUPI[1] = "{SCENARIO_DIR}\Output\NODEDETAIL.CSV"
5  FILEO NETO = "{SCENARIO_DIR}\Output\Temp\DetailNonCentroid.NET"
6  FILEI LINKI[1] = "{SCENARIO_DIR}\Output\UNLOADED_{ALT}{YEAR}.NET"
7  PROCESS PHASE=NODEMERGE
8      IF (DETAIL=1 & N <={ZONES})SA_Centroid=1
9  ENDPROCESS
10
11 PROCESS PHASE=LINKMERGE
12     LOOKUP NAME=NODEDETAIL, LOOKUP[1]=1, RESULT=2,
13         FAIL[1]=0, FAIL[2]=0, FAIL[3]=0,
14         LOOKUPI=1
15     _ADETAIL=NODEDETAIL(1,A.N)
16     _BDETAIL=NODEDETAIL(1,B.N)
17     ; IF EITHER THE ANODE OR BNODE IS A KEEPER THEN KEEP
18     _KEEP=MAX(_ADETAIL,_BDETAIL)
19     IF (_KEEP=0) DELETE
20
21 ; IF (DETAILNET=0) delete
22 ENDPROCESS
23
24 ENDRUN
25
```

```
1      ; Do not change filenames or add or remove FILEI/FILEO statements using an
2      ;SDNET00E.S
3      RUN PGM=NETWORK PRNFILE="{CATALOG_DIR}\Cube\SDNET00E.PRN" MSG='Create Subarea
4      Network'
5      FILEI LINKI[3] = "{SCENARIO_DIR}\Output\Temp\DetailNonCentroid.NET"
6      FILEI LINKI[1] = "{SCENARIO_DIR}\Output\SATEM_HNET_{YEAR}.NET"
7      FILEO NETO = "{SCENARIO_DIR}\Output\SA_HNET_{YEAR}.NET"
8
9      merge MAX=SA_Centroid
10
11     PROCESS  PHASE=LINKMERGE
12
13     ENDPROCESS
14
15     ENDRUN
16
```



---

```
1      ; Do not change filenames or add or remove FILEI/FILEO statements using an
      editor. Use Cube/Application Manager.
2      ;SDPIL00B.S
3
4      else
5
```

```
1      ; Do not change filenames or add or remove FILEI/FILEO statements using an
      editor. Use Cube/Application Manager.
2      ;SDPIL00C.S
3
4      ;*if exist {SCENARIO_DIR}\Output\TEMP\ZDISTRICTS_TEM_XX.DBF copy
      {SCENARIO_DIR}\Output\TEMP\ZDISTRICTS_TEM_XX.DBF
      {SCENARIO_DIR}\Output\ZDISTRICTS_XX.DBF
5      ;*if exist {SCENARIO_DIR}\Output\SATEM_HNET_{Year}.NET copy
      {SCENARIO_DIR}\Output\SATEM_HNET_{Year}.NET
      {SCENARIO_DIR}\Output\SA_HNET_{Year}.NET
6      ;*if exist {SCENARIO_DIR}\Output\SATEM_HNET_{Year}.NET copy
      {SCENARIO_DIR}\Output\SATEM_HNET_{Year}.NET
      {SCENARIO_DIR}\Output\S6HNET_{Year}.NET
7      ENDIF
8
9
10
```

```
1  ; Do not change filenames or add or remove FILEI/FILEO statements using an
2  ;DTMAT00W.S
3  RUN PGM=MATRIX PRNFILE="{CATALOG_DIR}\Cube\DTMAT00W.PRN" MSG='Aggregate the
4  SubArea Trip Tables for Assignment'
5  FILEI ZDATI[1] = "{SCENARIO_DIR}\Output\Temp\ZDISTRICTS_TEM_{MPO_DIST}.DBF"
6  FILEI MATI[2] = "{SCENARIO_DIR}\Output\MODEIN.TEM"
7  ;DISTRIBUTEINTRASTEP PROCESSID='CFRPMdist',
8  PROCESSLIST=2-%NUMBER_OF_PROCESSORS%,MinGroupSize=20,SavePrn=F
9  ;DISTRIBUTEINTRASTEP ProcessID='CFRPMdist',ProcessList=1-4
10 FILEO MATO[1] = "{SCENARIO_DIR}\Output\Temp\SAHTTAB_TEM.MAT",
11     MO=1-4, NAME=M1,M2,M3,M4 DEC=2*S
12
13 PAR ZONEMSG=100
14
15 FILLMW MW[1]=MI.2.1,2,3,4
16
17 RENUMBER ZONEO=ZI.1.DTAZ MISSINGZI=W MISSINGZO=W ZONES={ZONES}
18
19 ENDRUN
20
```

```

1  ; Do not change filenames or add or remove FILEI/FILEO statements using an
   editor. Use Cube/Application Manager.
2  ;MCMAT00Q.S
3  RUN PGM=MATRIX PRNFILE="{CATALOG_DIR}\CUBE\MCMAT00B.PRN" MSG='Split daily trip
   table into PK/OP for TPPMS'
4  FILEI MATI[2] = "{SCENARIO_DIR}\Output\Temp\SAHTTAB_TEM.MAT"
5
6  DistributeINTRASTEP ProcessID="CFRPMdist", ProcessList=1-%NUMBER_OF_PROCESSORS%
7  ;DistributeINTRASTEP ProcessID="CFRPMdist", ProcessList=1-4
8
9  FILEI LOOKUPI[1] = "{SCENARIO_DIR}\output\A1DECK.TEM"
10 FILEO MATO[2] = "{SCENARIO_DIR}\OUTPUT\MODEIN_OP.TEM",
11 MO=4-10, name=HBW0,HBW1,HBW2,HBO0,HBO1,HBO2,NHB, Format=tranplan
12 FILEO MATO[1] = "{SCENARIO_DIR}\OUTPUT\MODEIN_PK.TEM",
13 MO=4-10, name=HBW0,HBW1,HBW2,HBO0,HBO1,HBO2,NHB,format=tranplan
14 zonemsg=100
15
16 LOOKUP NAME=A1DECK,LOOKUP[1]=1,RESULT=5, ;HBW0
17          LOOKUP[2]=1,RESULT=6, ;HBW1
18          LOOKUP[3]=1,RESULT=7, ;HBW2
19          LOOKUP[4]=1,RESULT=8, ;NWK0
20          LOOKUP[5]=1,RESULT=9, ;NWK1
21          LOOKUP[6]=1,RESULT=10, ;NWK2
22          FAIL=0,0,0,
23          LOOKUPI=1
24
25 FILLMW MW[1]=MI.2.1,2,3
26
27 MW[4]=MW[1]*A1DECK(1,I)*0.5*0.01
28 MW[5]=MW[1]*A1DECK(2,I)*0.5*0.01
29 MW[6]=MW[1]*(100-A1DECK(1,I)-A1DECK(2,I))*0.5*0.01
30 MW[7]=MW[2]*A1DECK(4,I)*0.5*0.01
31 MW[8]=MW[2]*A1DECK(5,I)*0.5*0.01
32 MW[9]=MW[2]*(100-A1DECK(4,I)-A1DECK(5,I))*0.5*0.01
33 MW[10]=MW[3]*0.5
34
35 ENDRUN
36

```