



Place types:

$user_neg1, user_neg2$ } Data String

$gn, ng, ng, ng, imi, wait$ }

$TL1, TL2, PTL1, PTL2$ Data Transferr

\uparrow Cars

\uparrow Pedestrians

grid and map:

$t1: ((user_neg1 \neq NULL) \text{ OR } (user_neg2 \neq NULL)) \text{ AND } (wait \neq NULL)$

$gn = wait$

$PTL1. \text{Send Over Network}("yellow"), PTL2. \text{Send Over Network}("yellow")$

$t2: (gn \neq NULL)$

$ng = gn$

$TL1. \text{Send Over Network}("red"), TL2. \text{Send Over Network}("red")$

$PTL1. \text{Send Over Network}("green"), PTL2. \text{Send Over Network}("green")$

$t3: (ng \neq NULL)$

$ng = ng$

$PTL1. \text{Send Over Network}("yellow"), PTL2. \text{Send Over Network}("yellow")$

$t4: (ng \neq NULL)$

$gn = ng$

$PTL1. \text{Send Over Network}("red"), PTL2. \text{Send Over Network}("red")$

$TL1. \text{Send Over Network}("green"), TL2. \text{Send Over Network}("green")$

$t5: (gn \neq NULL)$

$wait = gn$