1 服务器端使用的布尔值定义

typedef enum {

TSNO = 0,

TSYES = 1

}TSBOOL;

2 传输包类型

typedef enum {

PACKET\_HEART\_BEAT = '0',

PACKET\_USER\_INFO,

PACKET\_OTHER\_DATA

}PACKET\_TYPE;

3 驾驶员性别

typedef enum {

MAN = 0,

WOMAN,

OTHER //MGD

}GENDER\_TYPE;

4 驾驶员诚信度类型

typedef enum {

INTEGRITY\_QUALITY\_POOR = 0,

INTEGRITY\_QUALITY\_GENERAL,

INTEGRITY\_QUALITY\_GOOD,

INTEGRITY\_QUALITY\_EXCELLENT

}INTEGRITY\_QUALITY\_TYPE;

5 路段质量类型

typedef enum {

ROUTE\_QUALITY\_POOR = 0,

ROUTE\_QUALITY\_GENERAL,

ROUTE\_QUALITY\_GOOD,

ROUTE\_QUALITY\_EXCELLENT

}ROUTE\_QUALITY\_TYPE;

6 路段拥挤程度类型

typedef enum {

TRAFFIC\_STREAM\_EXPEDITE = 0, //畅通

TRAFFIC\_STREAM\_AMBLE, //缓行

TRAFFIC\_STREAM\_CROWDED //拥挤

}TRAFFIC\_STREAM\_TYPE;

7 交通工具类型

typedef enum {

TRANSPORTATION\_BUS = 0,

TRANSPORTATION\_TAXI

}TRANSPORTATION\_TYPE;

8 传输包对象

typedef struct {

PACKET\_TYPE type;

size\_t length;

char \*data;

}PacketStruct;

9 精确的地理坐标对象

typedef struct {

float longitude;

float latitude;

}GeographicCoordinate;

10 城市对象

typedef struct {

GeographicCoordinate geoCoordSys;

char \*cityName;

}CityInfo;

11 驾驶员对象

typedef struct {

char \*\_driverID; //身份证

char \*\_name;

int \_age;

char \*\_headImage;

GENDER\_TYPE \_gender;

int \_driverYears;

TSBOOL \_isHaveInfractionsHistory; //违规历史记录

INTEGRITY\_QUALITY\_TYPE \*\_driverIntegrity; //驾驶员诚信度

}DriverInfo;

12 路线对象

typedef struct {

ROUTE\_QUALITY\_TYPE \*\_routeType;

long int \_pathLenth;

GeographicCoordinate \*\_startPlace;

GeographicCoordinate \*\_endPlace;

}RouteInfo;

13 交通工具对象

typedef struct {

char \*\_transportationID; //车牌号

char \*\_carTypeInfo;

char \*\_carImage;

TRANSPORTATION\_TYPE \*\_transportationType;

float \_averageSpeed;

DriverInfo \*\_driver;

}Transportation;

14 乘客对象

typedef struct {

char \*\_passengerName;

GeographicCoordinate \*\_passengerPlace;

INTEGRITY\_QUALITY\_TYPE \*\_passengerIntegrity;

}PassengerInfo;