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路口方案

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参考 B 路口虚拟link&虚拟lane 中方案2的 link 和lane的需求or实例

☑评审: baidu-adu-lab-andes-1190 [general][perception] add junction & virtual topo generator

1. 输出字段

☑文件页: baidu/asd/anp-common *proto_rename

```
message Junction {
    // 路口的几何属性
    required int32 junction_id = 1 [ default = -1 ];

    // 路口的其他属性
    repeated int32 link_ids = 2;
    repeated int32 ped_crossing_ids = 3;
    repeated int32 stop_line_ids = 4;
    repeated int32 curb ids = 5;
```

fef6e56⁷⁰⁴

fef6e5670⁴

fof6e5670A

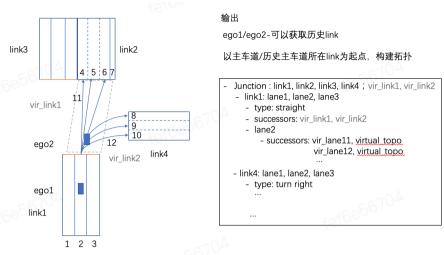
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```
required int32 sd_link_id = 17 [ default = -1 ];
 repeated LinkDirection link direction = 19;
required bool main car is in link = 20 [ default = false ];
repeated Segment segments = 21;
// LINK间的拓扑关系
repeated int32 precursor_link_ids = 22;
repeated int32 successor_link_ids = 23;
repeated LinkTurnDirection successor link turn direction = 24;
repeated int32 left link ids = 25;
repeated int32 right link ids = 26;
 // Lane间的拓扑关系
 repeated int32 precursor lane ids = 22;
 repeated int32 successor_lane_ids = 23;
 repeated LaneTopo successor_lane_topo = 24; // 后继的车道拓扑类型
 repeated int32 left_lane_ids = 25;
 repeated int32 right lane ids = 26;
enum LaneTopo {
 LTP_UNKNOWN = 0;
 LTP_LANE_CONTINUITY = 1;
 LTP_LANE_BREAK = 2;
 LTP_LANE_CONTINUITY_ONLY_BY_LEFT = 3;
 LTP_LANE_CONTINUITY_ONLY_BY_RIGHT = 4;
 LTP_LANE_MERGE = 5;
 LTP\_LANE\_SPLIT = 6;
 LTP_LANE_CONTINUITY_BY_VIRTUAL = 7;
```

车道后继类型: 三车道后继类型示例

2.输出示例

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注:拓扑关系建立在符合通行规则的基础上,依赖道路元素等信息,逐渐完善中

