```
int32_t BSD_Init(BSD_Handle_t *handle, BSD_Param_t *param)
{
    memset((void *)handle, 0, sizeof(BSD_Handle_t));
    memcpy((void *)&(handle->param), (void *)param, sizeof(BSD_Param_t));
    return 0;
}
```

C 库函数 void *memset(void *str, int c, size_t n) 复制字符 C (一个无符号字符) 到参数 str 所指向的字符串的前 n 个字符。

该行代码为handle分配了内存空间,并将存储的值清为0。

重置结构体变量 handle (BSD_Init的指针参数)

C 库函数 void *memcpy(void *str1, const void *str2, size_t n) 从存储区 str2 复制 n 个字节到存储区 str1。

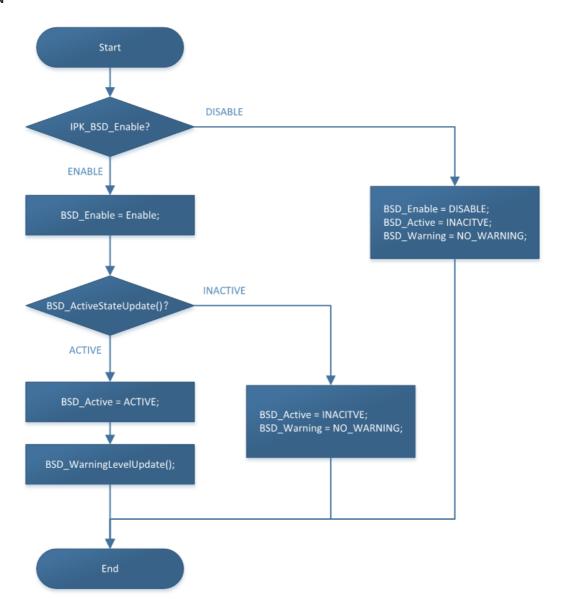
```
int32_t BSD_Run(BSD_Handle_t *handle, Vehicle_Signal_t *vehicle, TRK_ObjList_t
*objlist)
{
   if(vehicle->IPK_BSD_Enable == ENABLE)
        handle->enable = ENABLE;
        if(BSD_ActiveStateUpdate(handle, vehicle) == ACTIVE)
        {
            handle->active = ACTIVE;
            BSD_WarningLevelUpdate(handle, vehicle, objlist);
        }
        else
            handle->active = INACTIVE;
            handle->warning =NO_WARNING;
            handle->exitingTime = Ou;
    }
   else
    {
        handle->enable = DISABLE;
        handle->active = INACTIVE;
        handle->warning = NO_WARNING;
        handle->exitingTime = Ou;
    }
    return 0;
```

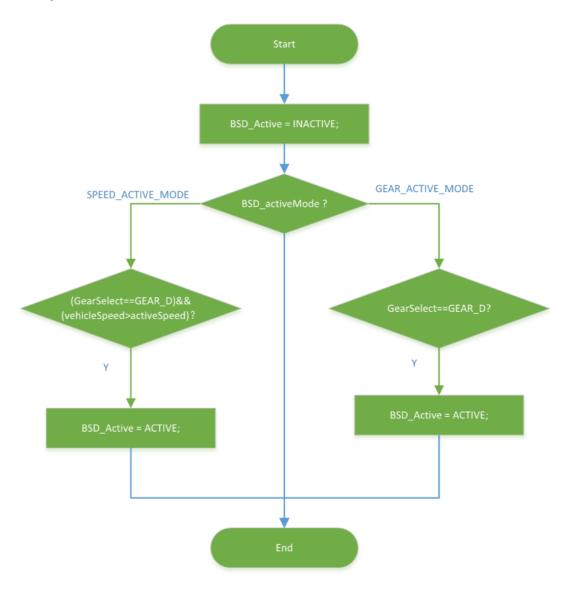
(BSD_Handle_t *handle, Vehicle_Signal_t *vehicle, TRK_ObjList_t *objlist)

Vehicle_Signal_t: 车辆信号标志,例如LCA使能,左右灯,前后左右门

TRK ObjList t: Target list of tracking output.

BSD_RUN





实现功能:

BSD主控制器根据行车速度或者挡位来开启和关闭系统

gear模式: 当选择挡位与gear D匹配

speed模式: 当车速大于某个设定值 (如15km/h) 时并且左后门关闭?? 激活 (模式未用

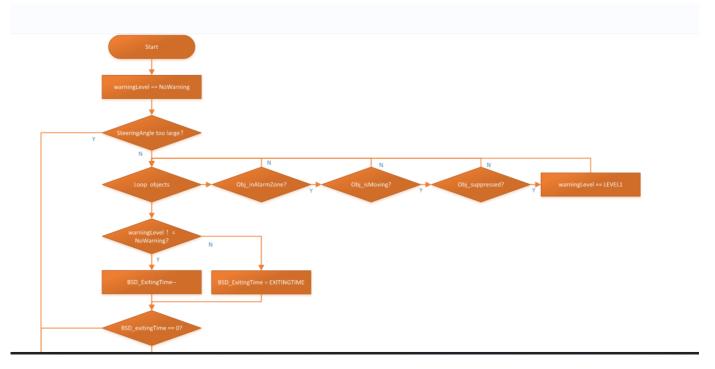
到)

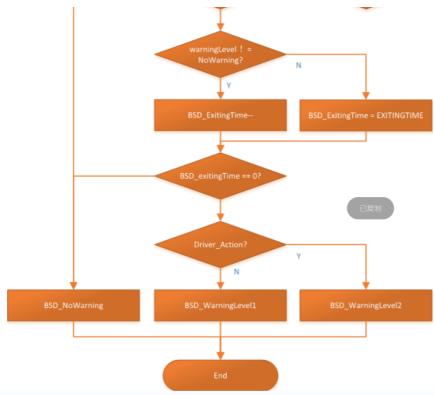
GB-B BSD Activation Conditions / BSD 激活条件 BSD function will be active under the following conditions:

- 1. Radar Power on. / 雷达上电
- 2. System available. /系统可用
- 3. BSD function enabled. / BSD 功能使能
- 4. Gear D. / 挡位是 D 挡

5. The vehicle drives above activation speed (15km/h). /车辆速度在激活速度 (15km/h)以上

BSD WarningLevelUpdate





```
handle->ObjState[ID_Of_Obj].inAlarmZone = Ou;
handle->ObjState[ID_Of_Obj].isMoving = Ou;
handle->ObjState[ID_Of_Obj].isWarning = Ou;
handle->ObjState[ID_Of_Obj].suppressionTime = Ou;
handle->ObjState[ID_Of_Obj].suppressed = Ou;
}
handle->exitingTime = Ou;
}
```

转向角大于30,不警报?不存在盲点?

车的转向角度与车的实际大小,运载低盘有关系,一般汽车的最大转向角在30度到40度之间,面包车的转向角都基本为30~34,轿车SUV等车型为40。