

Config File Structures / Layout

Name	Len	Example Data		
File Header	9 Bytes	RLVB3iCFG		
Endian Signature	UINT16	0xAA55		Or 0x55AA
Version code	UINT16			Currently 0x0000
Structures in File	UINT32		Bit fields	<div>Comments</div> <div>ADAS_SingleLane</div> <div>ADAS_CornerInfo</div> <div>ADAS_StaticPoints</div> <div>ADAS_ContactPointsSubject</div> <div>ADAS_ContactPointsTarget1</div> <div>ADAS_ContactPointsTarget2</div> <div>RobotVehicoSettings</div> <div>ADAS_ContactPointsTarget3</div> <div>0x01</div> <div>0x02</div> <div>0x03</div> <div>0x04</div> <div>0x05</div> <div>0x06</div> <div>0x07</div> <div>0x08</div> <div>0x09</div>

Structure Type				
Comments	UINT32	0x00000001		
	UINT16		String Len	
	N Bytes		String	
	UINT16		String Len	
	N Bytes		String	
ADAS_SingleLane	UINT32	0x00000002		
	UINT16		String Len	
	N Bytes		String	Friendly name of structure
	UINT16		Size	
	UINT32		Lane Type	
	N Bytes		Lane Definition	See lane definition structures
ADAS_CornerInfo	UINT32	0x00000003		
	UINT16		String Len	
	N Bytes		String	
	UINT16		Size	
	Corner_t		Front Left	
	Corner_t		Front Right	
	Corner_t		Rear Left	
	Corner_t		Rear Right	

ADAS_StaticPoints	UINT32	0x00000004		
	UINT16		String Len	
	N Bytes		String	
	UINT16		Size	
	UINT32		Lane Type	
	UINT32		Points Held	
	ADAS_RawPoint_t		Reference Point	
	StaticPoint_Settings_t			Settings
	N * StaticPoint_t			N is from Points Held
ADAS_ContactPointsSubject	UINT32	0x00000005		
	UINT16		String Len	
	N Bytes		String	
	UINT16		Size	
	UINT32		Lane Type	
	UINT32		Points Held	
	ADAS_RawPoint_t		Reference Point	
	ContactPointsSettings_t			
	24 * ADAS_RawPoint_t			
	24 * ADAS_Point_t			
ADAS_ContactPointsTarget1	UINT32	0x00000006		
	UINT16		String Len	
	N Bytes		String	
	UINT16		Size	
	UINT32		Lane Type	
	UINT32		Points Held	
	ADAS_RawPoint_t		Reference Point	
	ContactPointsSettings_t			
	24 * ADAS_RawPoint_t			
	24 * ADAS_Point_t			
ADAS_ContactPointsTarget2	UINT32	0x00000007		
	UINT16		String Len	
	N Bytes		String	
	UINT16		Size	
	UINT32		Lane Type	
	UINT32		Points Held	
	ADAS_RawPoint_t		Reference Point	
	ContactPointsSettings_t			
	24 * ADAS_RawPoint_t			
	24 * ADAS_Point_t			

RobotVehicoSettings	UINT32	0x00000008		
	UINT16		String Len	
	N Bytes		String	
	UINT16		Size	
	ADAS_RawPoint_t		Reference Point	
	FLOAT32		Heading	
ADAS_ContactPointsTarget3	UINT32	0x00000009		
	UINT16		String Len	
	N Bytes		String	
	UINT16		Size	
	UINT32		Lane Type	
	UINT32		Points Held	
	ADAS_RawPoint_t		Reference Point	
	ContactPointsSettings_t			
	24 * ADAS_RawPoint_t			
	24 * ADAS_Point_t			

Lane Type Values	
0x22222222	ADAS_ExternalObjectType_MutilStaticPoint
0x55555555	ADAS_ExternalObjectType_Lane_Simple
0x88888888	ADAS_ExternalObjectType_ACSF
0xAAAAAAAA	ADAS_ExternalObjectType_Lane_Complex
0xCCCCCCCC	ADAS_ExternalObjectType_VSep_Polygon
0xFFFFFFFF	ADAS_ExternalObjectType_Unknown

ADAS_ExternalObjectType_Lane_Simple		
ADAS_RawPoint_t	Lane Point 1	
ADAS_RawPoint_t	Lane Point 2	
ADAS_RawPoint_t	Lane Point 3	
ADAS_RawPoint_t	Lane Point 4	
ADAS_RawPoint_t	Lane Point 5	
ADAS_RawPoint_t	Lane Point 6	
ADAS_RawPoint_t	Lane Point 7	
ADAS_RawPoint_t	Lane Point 8	

ADAS_ExternalObjectType_ACSF		
ADAS_RawPoint_t	Lane Point 1	
ADAS_RawPoint_t	Lane Point 2	
ADAS_RawPoint_t	Lane Point 3	
ADAS_RawPoint_t	Lane Point 4	
ADAS_RawPoint_t	Lane Point 5	
ADAS_RawPoint_t	Lane Point 6	
ADAS_RawPoint_t	Lane Point 7	
ADAS_RawPoint_t	Lane Point 8	

ADAS_ExternalObjectType_Lane_Complex		
UINT32	Point Held	
ADAS_RawPoint_t	Reference Point	
Lane Information	N * ADAS_Point_t	N is value from Points Held

Structure definitions

```
struct _ADAS_RawPoint_t {
    FLOAT64  LatRad;
    FLOAT64  LngRad;
    FLOAT64  Alt;
}

struct _ADAS_Point_t {
    FLOAT32  xLng;
    FLOAT32  yLat;
    FLOAT32  zUp;
    FLOAT32  Heading;
}

struct _Corner_t {
    FLOAT32  Width;
    FLOAT32  Length;
    FLOAT32  Height;
}

struct _StaticPoint_Settings_t {
    FLOAT32  LNG_Offset;
    FLOAT32  LAT_Offset;
    FLOAT32  Max_Distance;
    FLOAT32  Min_Distance;
    FLOAT32  Start_Angle;
    FLOAT32  End_Angle;
}

struct _StaticPoint_t {
    FLOAT32  Point1_Easing;
    FLOAT32  Point1_Northing;
    FLOAT32  Point1_Up;
    FLOAT32  Point2_Easing;
    FLOAT32  Point2_Northing;
    FLOAT32  Point2_Up;
    FLOAT32  Angle;
}

struct _ContactPointsSettings_t {
    ADAS_Point_t      Point1;
    ADAS_Point_t      Point2;
    ADAS_RawPoint_t    ANT_A;
    ADAS_RawPoint_t    ANT_B;
}
```