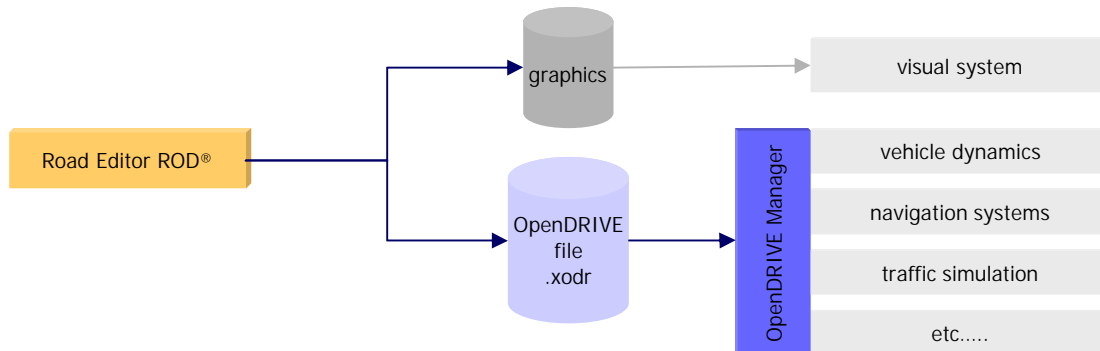


OpenDRIVE ManagerTM - Product Data Sheet



With OpenDRIVE[®] being available, the exchange of scenarios and databases for driving simulations has finally become a lot easier.

But getting the OpenDRIVE[®] information into your own software (e.g. driving dynamics) still is a considerable job to do, starting with the reading of the XML file and continuing with the correct and fast evaluation of the data contained in the road description.

In parallel with the development of OpenDRIVE[®], VIRES has developed - and is permanently extending - a suite of road data evaluation routines which enable the user to:

- read an OpenDRIVE[®] file into memory
- calculate contact point data
- convert between inertial, track and lane positions
- query road properties at a given position
 - curvature
 - lane width
 - road marks
 - signals
 - etc.
- setup paths for vehicles
- navigate through the road network including junctions
- access directly all OpenDRIVE[®] nodes in memory

The routines are provided as a library for Linux and MS-Windows systems. They have all been optimized for real-time behavior so that they require a minimum CPU time for their respective tasks. This guarantees that you have the maximum remaining time available for your own computations based on the correct road information.

Instead of starting the time- and resource-consuming task of writing your own import and evaluation routines for the OpenDRIVE[®] data format, you can use our ready-to-run OpenDRIVE[®] Manager and link it as a library to your own application.

Since the OpenDRIVE[®] Manager is also used in most of VIRES' driving simulation applications, you can always be sure that we will keep it up-to-date and in accordance with the OpenDRIVE[®] standard.