**EB Assist ADTF – Development and test environment for driver assistance and highly automated driving software**
Flexible and extendable set of modules for various needs and use cases

### Standard and optional toolboxes of EB Assist ADTF

<table>
<thead>
<tr>
<th>Toolbox Name</th>
<th>Included in EB Assist ADTF</th>
<th>Description</th>
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</table>
| **EB Assist Device Toolbox**        | 2.x, 3.x                  | Included in EB Assist ADTF 2.x  
                                     | 3.x          | The EB Assist Device Toolbox is the connection to various hardware devices:  
                                     |              | - Vector CANCard  
                                     |              | - Peak CAN  
                                     |              | - MOST Vector VN2610  
                                     |              | - SMSC Optolyzer  
                                     |              | - Vector VN3300, VN3600, VN7600  
                                     |              | - Eberspächer FlexCard  
                                     |              | - DirectShow Video Devices  
                                     |              | - IDS µEye  
                                     |              | - mvBlueFox  
                                     |              | - Video4Linux  |
| **EB Assist Display Toolbox**       | 2.x, 3.x                  | Included in EB Assist ADTF 2.x  
                                     | 3.x          | The EB Assist Display Toolbox offers different visualization modules:  
                                     |              | - 3D Scene Display  
                                     |              | - 2D Display  
                                     |              | - Signal View  
                                     |              | - Qt Display Filter  
                                     |              | - Scope Display  
                                     |              | - Table Display  
                                     |              | - X-Y Display  |
| **EB Assist Compression Toolbox**   | 2.x                       | Included in EB Assist ADTF 2.x  
                                     |              | The EB Assist Compression Toolbox allows the compression and decompression of video streams.  |
| **EB Assist Calibration Toolbox**   | 2.x, 3.x                  | Available for EB Assist ADTF 2.x  
                                     | 3.x          | Included in EB Assist ADTF 3.x  
                                     |              | The EB Assist Calibration Toolbox consists of multiple filters to support CCP / XCP communication with an ECU. The toolbox supports different bus types like CAN, FlexRay or Ethernet.  
                                     |              | - XcpOnCanDevice  
                                     |              | - XcpOnEthernetDevice Filter  
                                     |              | - XcpOnFlexRayDevice Filter  
                                     |              | - XcpCodec Filter: The XcpCodec Filter is used to establish a physical connection between ADTF and an electronic control unit using the XCP Protocol.  
                                     |              | - CpDisplay Filter: The CpDisplay Filter is used to read and change the signal values of one or more control units  |
| **EB robinos Provider**             | 2.x                       | Available for EB Assist ADTF 2.x  
                                     |              | The EB robinos Provider for EB Assist ADTF makes EB’s series grade navigation solution EB street director available within EB Assist ADTF. In addition to live or recorded GPS data, a route simulation mode is supported.  
                                     |              | - Live or recorded GPS track  
                                     |              | - Route simulation  |

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| **EB robinos Provider** for EB Assist ADTF | Batch mode for automated test  
Interactive map  
The EB robinos Provider for EB Assist ADTF is part of the EB robinos Predictor. |
| **EB robinos Reconstructor** for EB Assist ADTF | The EB Assist Reconstructor consists of a set of EB Assist ADTF filters. These filters support the development, test and verification of Electronic Horizon based advanced driver assistance systems.  
- Visualize electronic horizon tree  
- View all data textual  
- Generate memory usage statistics  
- Execute Reconstructor compliance tests  
The EB robinos Reconstructor is part of the EB robinos Predictor. |
| **EB Assist Car Data Recorder (CDR) Toolbox** | The EB Assist Car Data Recorder Toolbox lets you concentrate on the data recording task, keeping the technical details within the EB Assist CDR Toolbox:  
- **CDR Server**  
  - Connect remote user interface  
  - Remote connectivity to 3rd party tools (e.g. test automation)  
  - Control and monitor ADTF functionality  
- **CDR Advanced Signal Management**  
  - Signal to ADTF DDL Recording  
  - Partial CAN DBC generation  
  - Signal Trigger Manager  
  - Lossless Signal Compression  
  - Virtual signal generation using built-in LUA scripting interface  
  - Using a build-in LUA scripting engine, EB Assist CDR lets you generate complex trigger conditions or signal calculations at run time without even touching a C++ compiler. |
| **Matlab/Simulink® Blockset** | The ADTF ML/SL Blockset is used for data exchange between ADTF and MATLAB/Simulink. The exchange of data with ML/SL Blockset is based on the Data Description Language (DDL) and uses the ADTF Message Bus for communication between the applications. |
| **EB Assist ARXML Communication Toolbox** | The EB Assist ARXML Communication Toolbox supports the description of CAN, FlexRay, SOME/IP, and ARXML 4.2.1 within EB Assist ADTF by replacing the existing CAN and Flexray parser. |