



digital  erk

**ADTF**  
FOR DATA LOGGING

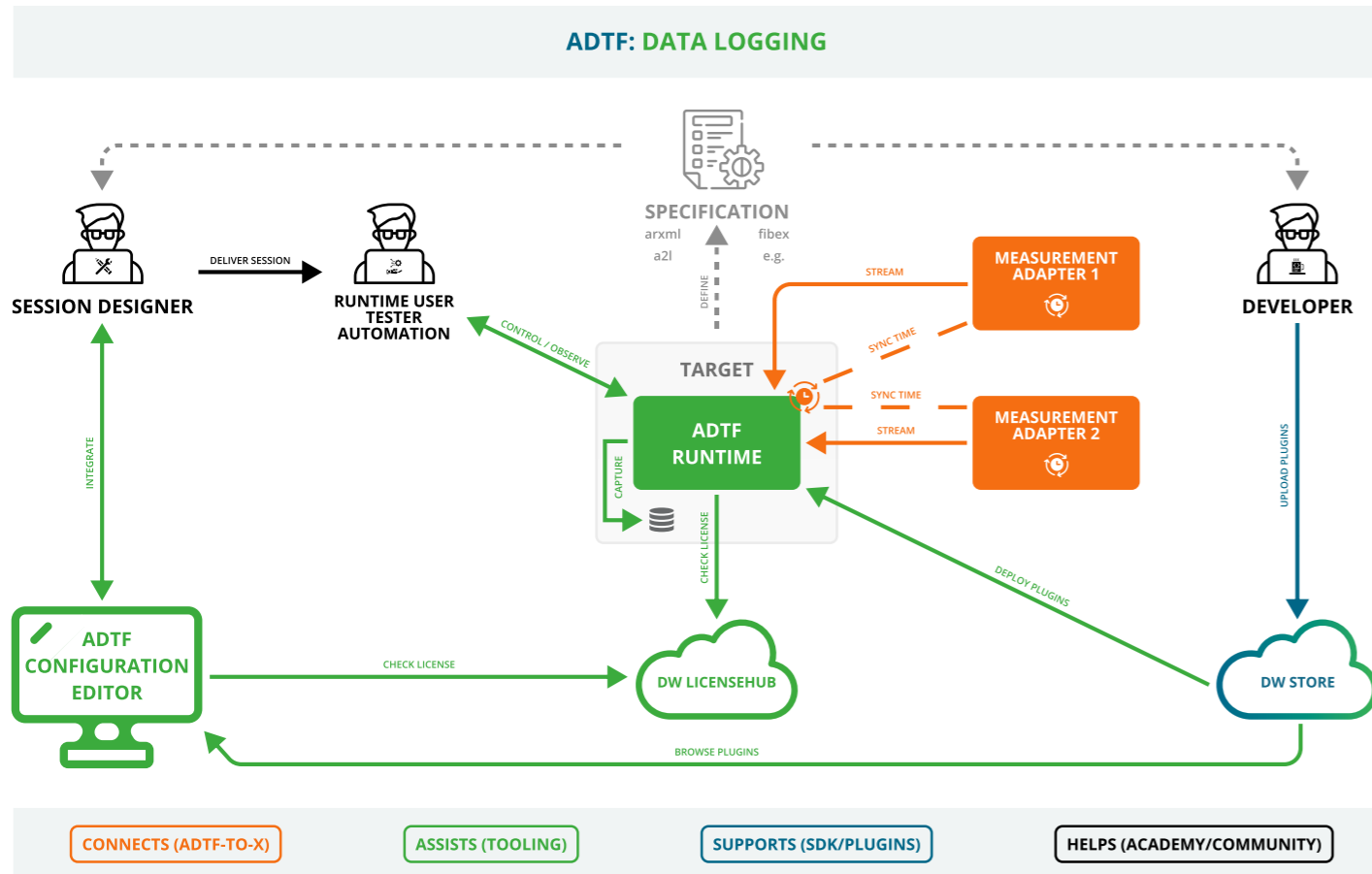
# ADTF FOR DATA LOGGING USE CASE

## HOW ADTF SUPPORTS HARDWARE SUPPLIERS TO GAIN FULL POTENTIAL AND FULFILL MARKET REQUIREMENTS

In data recording, it is increasingly important that software supports hardware-specific functions in order to tap its full potential.

With its standardized interfaces, ADTF offers easy access to bus communication data, video content, lidar, radar, other sensors, and diagnostic content, primarily based on AUTOSAR and ASAM standards.

For example, digitalwerk realized the integration of the system health management for b-plus via ADTF and the SIODI interface for their b-plus brick data logger. As a result, values such as fan speed and components temperatures can be queried via this connection, further processed, visualized, monitored (e.g., limited thresholds), and stored.



## ADTF OFFERS PLUG & PLAY

Thanks to standardized interfaces, ADTF offers users a simple Plug&Play approach to evaluate and record video signals. For instance, MDILink converts sensor data to ethernet for seamless integration into existing systems such as LVDS cameras. The generated ethernet data stream is received, processed, and stored by ADTF using onboard tools. Another approach can be technologies like GigE Vision.

## THE ADTF TOOLSET

The central part of the use case data logging is the ADTF Device Toolbox which is delivered with the ADTF license and enables the realization of hardware connections with its interfaces and essential functions. In addition, the containing or custom data sources provide raw data streams that can be stored directly to disk or converted into standardized DDL-described data streams, e.g., for further processing and assessment in other components or visualization.

## ADTF SDK

ADTF as a framework is particularly suitable for this task and existing components can be used directly, and missing functionality can be implemented and integrated via the standardized ADTF interfaces.

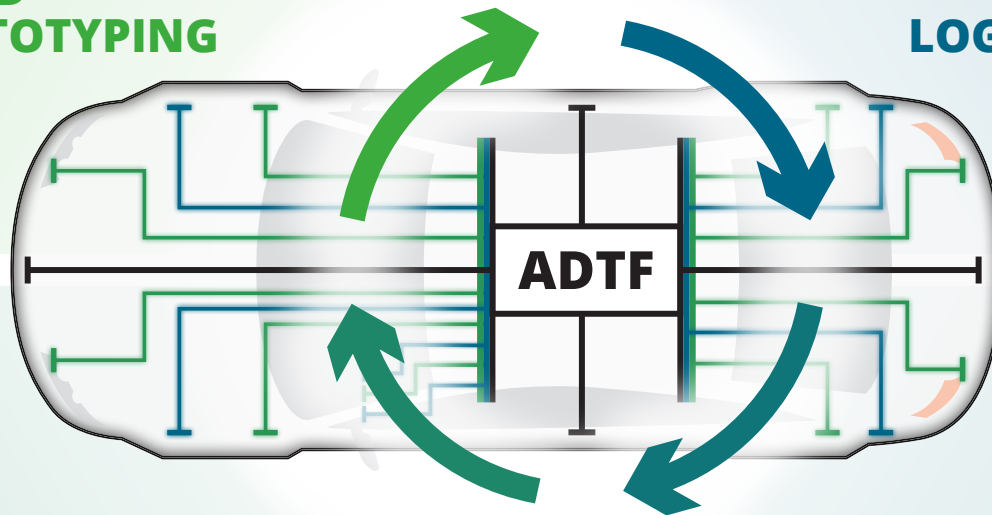
ADTF WORKSPACE		
SUPPORTED HARDWARE	SUPPORTED PROTOCOLS	SUPPORTED FORMATS
b-plus brick, DATAlynx	ASAM CMP	ADTF DAT
DirectShow	Automotive Ethernet	ARXML
ETAS RAL0	CAN	ASC
NI PXIe	CAN FD	A2L
nvidia Drive	DLT	CSV
Peak	FlexRay	DBC
Socket CAN / CAN FD	SOME/IP	Fibex
StarCooperation Flexcard	TECMP	MDF
Vector	XCP	PARQUET
Video4Linux		PCAP / PCAPNG
X2E		Video (avi, mkv, ...)

**REFERENCES** Whether Audi, Bosch, CARIAD, Continental, Daimler Truck, Mercedes-Benz or Volkswagen: they all rely on our constantly evolving tools for the development of intelligent driver assistance solutions through to autonomous driving. From the first idea for a new feature to series production readiness, our software experts create the foundations with every line of code to write the future of autonomous driving.

# digitalwerk

**RAPID  
PROTOTYPING**

**DATA  
LOGGING**



**SIMULATION**

**POST  
PROCESSING**

digitalwerk

## IMPRINT

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