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WHATS NEW – FW 35.3.0.x

HW VERSION 3.5

- ADMA-G
- ADMA-Speed
- ADMA-Slim

GeneSys Elektronik GmbH
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Inhalt

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1 NTRIP-CLIENT

FEATURE

We're excited to introduce the new integrated NTRIP-Client feature for ADMA! This enhancement allows seamless connection to NTRIP providers such as AXIO-NET or SAPOS. With an active internet connection via the connected network, ADMA can now utilize real-time correction data effortlessly.

2 MULTI DESTINATION

FEATURE

The ADMA now supports sending the ADMAnet data stream not only via broadcast—known for its high network load - but also up to five direct destination IP addresses in parallel. This new capability significantly reduces network load while maintaining efficient data distribution.

3 ADD-ON LATDEV: 16 STATIC OBJECTS

FEATURE

Our Add-On LatDev now allows you to define up to 16 "Simple Objects" and simultaneously calculates and outputs data such as distances, speeds, Time-to-Collision (TTC), and more for these points. This powerful feature enhances analysis capabilities, offering detailed insights in parallel and results in the new Add-On LatDev format version 1.0.1.0
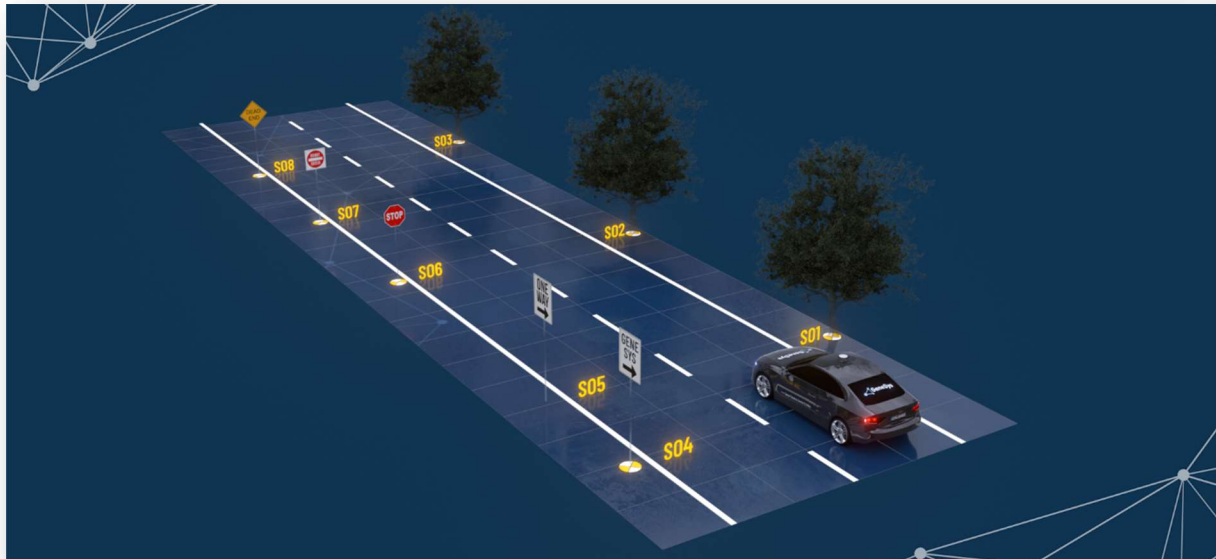
4 ADD-ON DELTA 1:5: TTC AND ID

FEATURE

The Delta Add-On has been upgraded to include TTC (Time to Collision) according to Euro NCAP and NHTSA Standards. This means the TTC is calculated twice, one based on velocity only and one based on velocity in respect of the current acceleration.

For filtering the different targets, the target ID was added to the Delta data stream.

These new data channels are integrated in the new Add-On Delta 1:5 data format version 7.2.
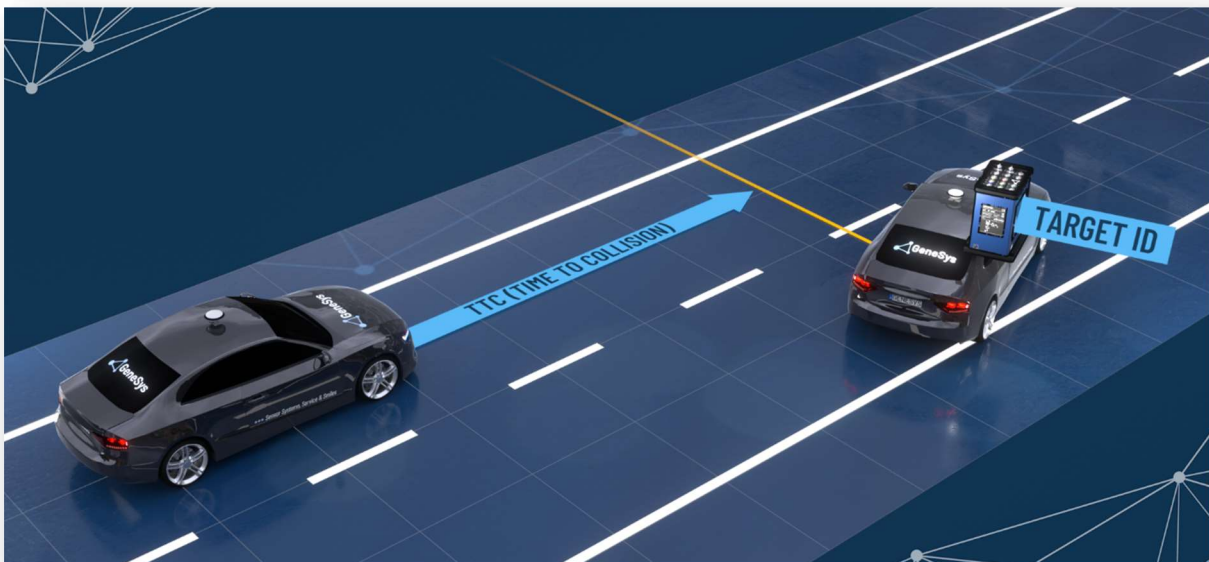
5 ENHANCED INITIALIZATION

FEATURE

The initialization procedure for the ADMA system has been significantly improved to enhance flexibility, accuracy, and safety during measurement drives. The key features of this enhancement include:

1) Delayed Heading Initialization:
With this new feature we aim to prevent misuse of the system, ensuring that heading initialization is performed correctly. While the optimal scenario involves driving straight at the beginning, some users may neglect this step. With this update, we introduce a safeguard that helps mitigate improper use within certain limits.

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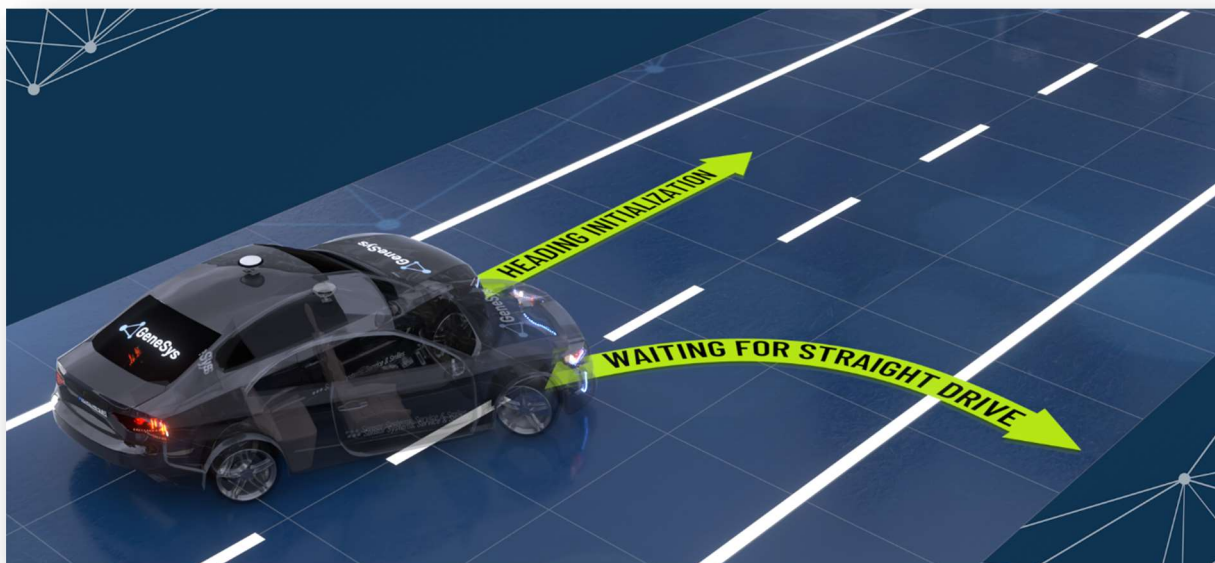
**2) Heading and Mounting Offset Validation:**

During the first straight-line driving, the system not only initializes the heading but also validates the configured mounting offsets. This validation ensures that the offsets are correct and checks for significant deviations or improperly configured rotation angles. If the offsets are deemed implausible, the status bit warning "Warn Mounting Offsets" is set to 1, providing early detection of potential configuration
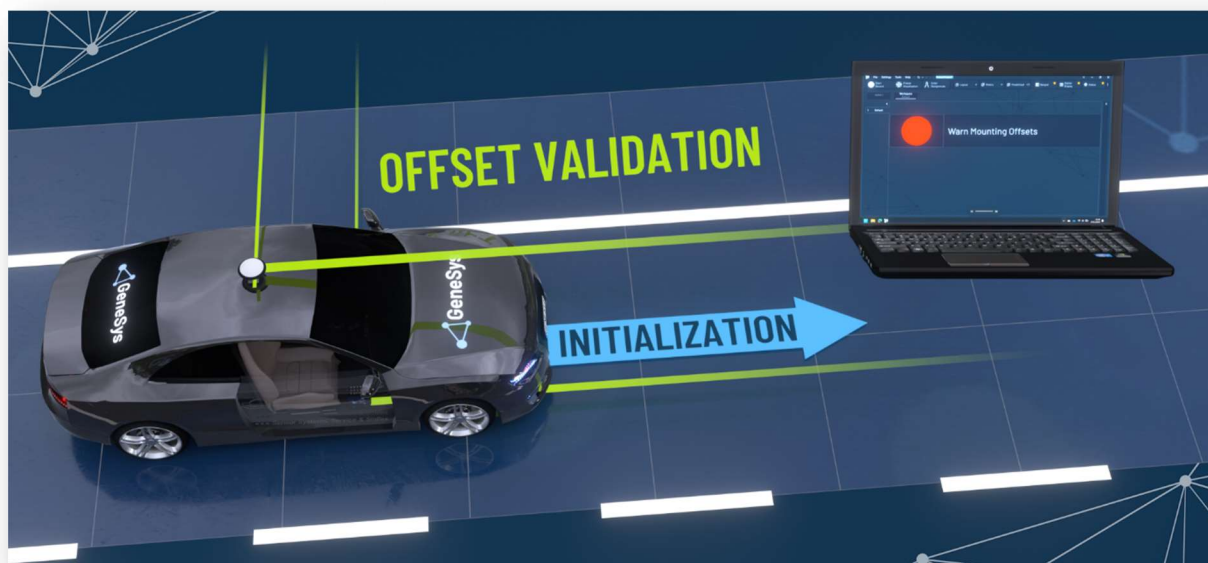
3) Safety Assurance through Automated E-Stop:

If incorrect mounting offsets are detected during initialization, the ADMA system automatically switches the robot mode to "not ready," prompting the driving robot to halt operations immediately. This mechanism ensures the safety of all ADAS platforms or Driving robots relying on ADMA data, guaranteeing accurate and reliable system performance in all scenarios.
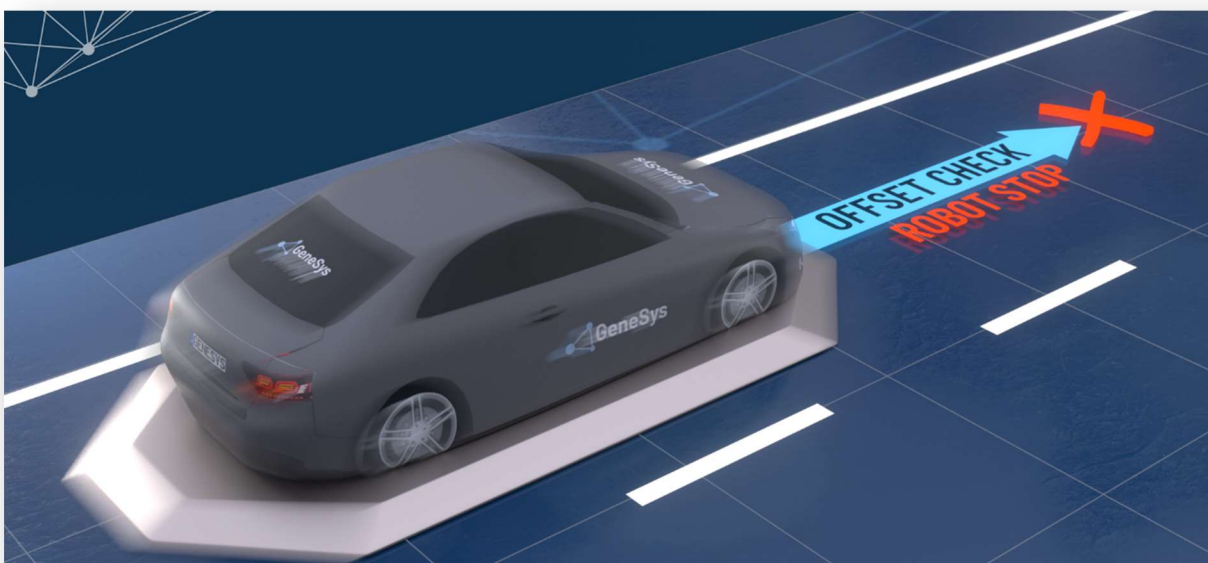
6 ON-THE-FLY CONFIGURATION
FEATURE

The ADMA now supports modifying all configuration parameters that do not impact the Kalman filter during an active measurement. This enhancement provides greater flexibility and efficiency, allowing seamless adjustments without interrupting the measurement process and thus without a re-initialization.

Support

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