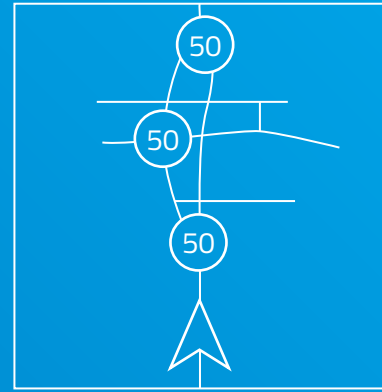


NNG

iGO.AHEAD ISA

Scalable, adaptive, and cost-effective answer to evolving safety legislation.



"NNG iGO.AHEAD enables the safety features your customers and EU regulators demand."

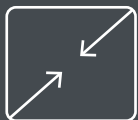
MEETING SAFETY REGULATIONS IS GETTING TOUGHER

It's also getting expensive. Cramming cameras and maps into a car just isn't cost effective. Especially for brands in cost-sensitive markets. NNG iGO.AHEAD offers a next generation, cloud-based horizon solution for ISA and other ADAS applications. One that not only adapts to evolving legislation and connectivity infrastructure – without changes to client-side software – but also safely reduces data consumption costs, with dynamic online, and static offline-only options, helping you manage your bottom line.

Conventional on-board electronic horizon solutions, even those using streaming, are reaching their cost limit. Map storage and cellular data costs are high. NNG iGO.AHEAD tackles this problem by streaming only the needed data layers and taking map management and configuration into the cloud.

Book a demo: sales@nng.com

KEY BENEFITS



REDUCES DATA CONSUMPTION BY UP TO 90%

Data storage and transmission can be expensive.

With iGO.AHEAD, contextual use of map-path and tile streaming reduces data consumption by up to 90% and requires much less bandwidth.

Map management and most probable path calculation happen in the cloud-based application, not in the cockpit.

Customizable contextual data consumption – based on regional or local cellular coverage and connection speed – and predictive caching provides a seamless offline backup.



FUTURE PROOF EXTENDIBILITY

Improve the reliability of existing ADAS services with a cost-effective map delivery ecosystem. Adding new ADAS functionality is done entirely in the cloud.



FULL LIFECYCLE SUPPORT WITHOUT THE COST OF OWNERSHIP

A 14-year maintenance mandate makes provisioning ISA a challenge. Our cloud-based solution means the freshest map-path and service updates are available on-demand. No development, infrastructure or maintenance required.

OEM CHALLENGES

EU LEGISLATION

OUR SOLUTION

- All new vehicle types must comply by 2022. All new vehicles by 2024.
- Accuracy target of 90% means that cameras are not enough.
- 14-year minimum maintenance period. 7-year minimum map provisioning period.
- Ready to run without need for additional development, infrastructure, or maintenance.
- Fuse map and camera data to offer the accuracy required to exceed mandated targets.
- Low-cost, cloud-based, map-path streaming solution reduces provisioning and data costs.

EURO NCAP

- 5-star safety NCAP score unachievable without ISA.
- System accuracy scores for ISA difficult or impossible to achieve without maps.
- Quarterly updates required for 6-year minimum.
- Low-cost solution to pass advanced function tests.
- Cost effective means of gaining a system accuracy score.
- Software as a Service solution enables flexible updates.

ADAS PERFORMANCE AND UPTIME

- Traffic Sign Recognition and false detection.
- Adaptive Cruise Control during bad weather or camera failure.
- Map distribution to ADAS ECUs without in-vehicle navigation.
- ISA components (cloud, data-plan, connectivity, client) can be reused for ADAS purposes.
- Camera-map fusion extends the TSR and ACC operation design domain.
- ADAS data can be provisioned on demand and distributed to various ADAS ECUs using minimal bandwidth.

NNG iGO.AHEAD – AT-A-GLANCE

CLOUD-BASED SOFTWARE AS A SERVICE SOLUTION

- Cloud-based service opens up new horizons for ISA and ADAS applications.
- Enables positioning, map matching, and horizon generation in the cloud.
- Streaming only the map path for the horizon minimizes data consumption.

STANDARDIZED INTERFACES AND PROTOCOLS

- Automotive grade standardized service interfaces (NDS.Live) and certified services for interoperability.
- Utilizes well established in-vehicle protocols such as ADASIS.

SMALL FOOTPRINT AND COST-SENSITIVE

- Unique caching mechanism for data re-use.
- Tiny in-vehicle client application distributes map path to ISA and ADAS functions.

OFFLINE FALL-BACK

- Proactive data caching with predictive connectivity to bridge areas with low or no mobile network.
- Region- and connectivity-considerate map update pre-configuration (or reconfiguration) handled simply in the cloud.
- Support for fully offline vehicles using NDS.Classic

ABOUT NNG

Global and independent since 2004, NNG's proven automotive software has hit the road in more than 60 million devices worldwide. Today, with product lines spanning Navigation, Connected Services, Cockpit, and Cybersecurity, NNG delivers seamless, next-generation mobility solutions that are smart, secure, and connected – from the cockpit to the cloud.

Its connected services portfolio is independent of supplier ecosystem, empowering automakers, and tier-1 suppliers with the freedom to differentiate their offerings. Supported by over 60 providers worldwide, NNG delivers highly localized solutions, using the best content available for each market.

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