



HERE NDS.Live Service presentation

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Motivation

NDS.Live is the next important step in the evolution of automotive navigation and automated driving.

It enables the automotive eco-system to create and use map data with high update frequency, fast development cycles, and optimized operational costs.

***“NDS.Live is not a database,
it is a distributed map data system”***

Goals within the NDS joint dev team

Business

- Demonstrate HERE ability to provide existing high quality ADAS data through new HERE NDS.Live service
- Demonstrate basic NDS.Live service setup and how NDS.Live users can discover it and register
- Demonstrate ability to optimize size of delivered content by providing content in NDS smart layers as requested by the client use cases

Technical

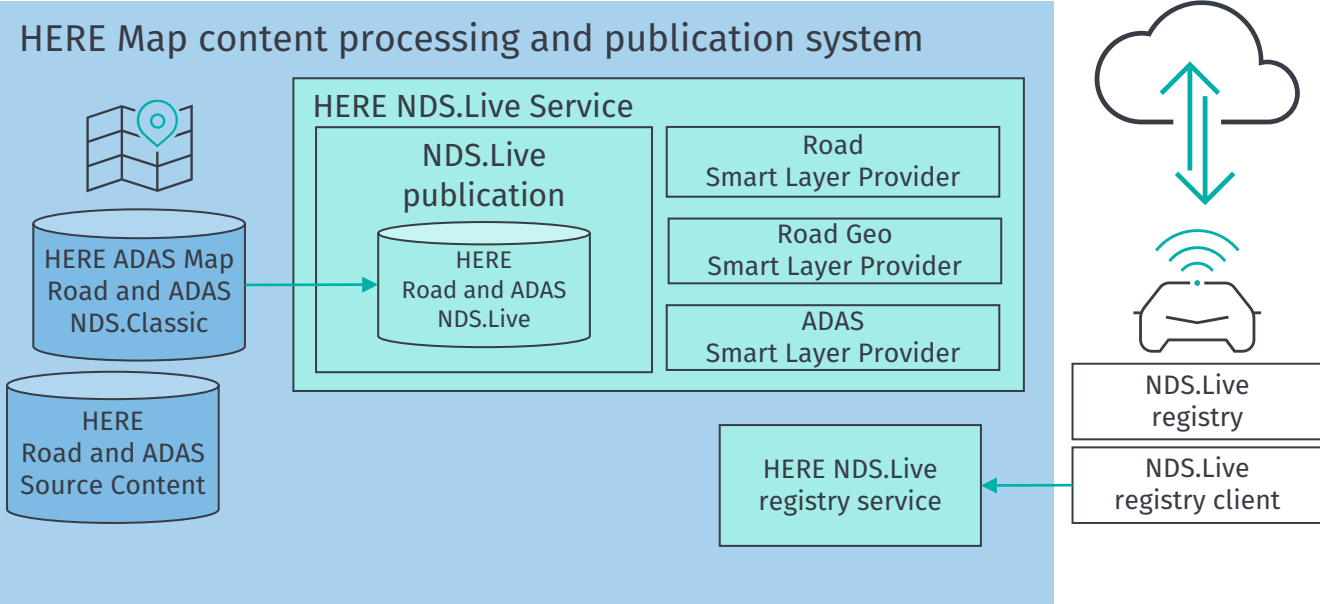
- Evaluate and improve the NDS.Live module model
- Evaluate and improve NDS.Live reference implementations for NDS.Live registry and smart server/client

Team and tasks overview

How HERE supported the first NDS.Live implementation

- **Low effort activity**
- **Done by a small team of 3 engineers**
- **within a time frame of 2 months and with only a low percentage of their time**
- **Result: Setup of basic NDS.Live service achieved**
 - NDS.Live registry
 - NDS.Live smart layer providers for roads and ADAS attributes
 - Transcode existing NDS.Classic publication of ADAS Map into NDS.Live

NDS.Live Service Architecture



Use Case

A connected car system requires the delivery of road geometry, road attributes, and ADAS attributes as data tiles.

Request is by tile ID and content type.





HERE ADAS Map Publication in NDS

A comprehensive automotive map publication for ADAS and eHorizon systems in NDS format

- Supporting ADAS/eHorizon use cases and is ADASIS v2 compliant
- ADAS features: Curvature, Gradient, Slope
- Includes road topology, various road attributes, advisory, average speed and speed limit attributes, warnings, restrictions, selected admin information
- Using most recent NDS 2.5.4 spec
- Published monthly as an NDS database and ...
- ... publication as tile-based on HERE Platform

Next Steps for the joint development of NDS.Live

Demonstrate the ability of HERE to quickly and efficiently provide content according to new requirements, for example ...

- Make speed limits available as a new, additional content layer, without the need to process existing content layers again
 - Only a new, additional speed limit layer is prepared and delivered

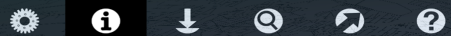
The logo for 'here' maps, featuring a white arrow pointing right and the word 'here' in white lowercase letters on a dark grey background.

Thank You!

Contributors:

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NDS.live LAB viewer



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Standard Attributes

- App-Id: 1223
- Length: 40100 cm
- Visual-Id: 59348

NDS: 136374683 574316763
0x8316e1b 0x223b60db

Morton: 596744402690894287
8480fd9c54a3cf

WGS84: 48.1138675 11.598432
48°8'19.23"N 11°35'54.35"E

Grid-Level: 13