



Discover the Experience

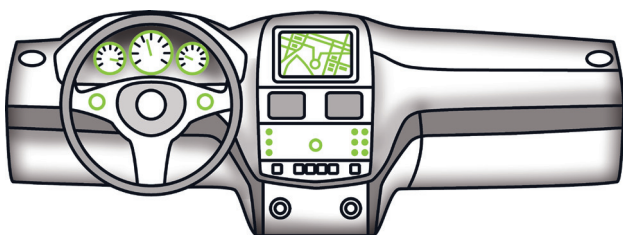


EB GUIDE 5.2

HMI development

Build compelling HMIs

Use EB GUIDE as all-in-one product for specification, modeling, code generation and mass production of infotainment systems, instrument clusters, and speech-enabled navigation systems.



Your advantages in using EB GUIDE:

- ▶ save cost and time by optimizing the development process,
- ▶ easily manage complex user interfaces,
- ▶ specify graphics and speech dialog in a single tool,
- ▶ keep control - model views and states for your system,
- ▶ experience early results - with fast rapid prototyping and enriched simulations,
- ▶ customize the tool chain with plugins.

Our services for you:

- ▶ product customization and engineering services including adaptation of EB GUIDE to your specific requirements
- ▶ scalable service offering from project support to complete turn-key solutions
- ▶ graphical HMI design concepts with EB's partner network
- ▶ training and consulting on tooling and target development

EB GUIDE is made for:

- ▶ HMI specialists,
- ▶ GUI designers,
- ▶ speech dialog experts,
- ▶ embedded software engineers,
- ▶ application developers.

EB GUIDE customers

Aisin, Audi, Bentley, Bosch, Carmeq, CDN, Comneon, Continental, Daimler, Daimler Truck, Delphi, DPS, EvoBus, Freightliner, Fujitsu Ten, IAV, Jaguar/Land Rover, Johnson Controls, MAN, MettlerToledo, Nippon Seiki, Panasonic, Porsche, PSA, Renault, Scania, Seat, Skoda, Stoneridge, SWSA, Tata Elxsi, TechniSat, T-Systems Iberia, Volkswagen, Shanghai Volkswagen, Volkswagen of America.

About EB GUIDE

Develop graphical elements and speech dialog of your HMI within an integrated tool environment:

- ▶ use one model for graphical, haptic and speech enabled design concepts,
- ▶ implement different skin and language variants,
- ▶ export your specification documents,
- ▶ test your model and integrate real hardware into the simulation,
- ▶ benefit from multi-user mode and server-based licensing,
- ▶ adapt your project to various operating systems, embedded graphics libraries and hardware platforms.

Tool components/perspectives

Task-based editors support you in designing graphical display elements, menu structure, animations and system behavior:

- ▶ View Editor:
arrange graphical elements (widgets) and setup the datapool.
- ▶ State Editor:
model the menu structure (states) in UML like diagrams.
- ▶ Event Editor:
define interaction messages between HMI and applications.
- ▶ Speech Editor:
define user commands and system prompts (requires EB GUIDE Speech Extension).
- ▶ Simulation:
run previously designed HMI concepts and follow the statemodel.
- ▶ Extensibility:
use additional plugins for enhanced HMI development.

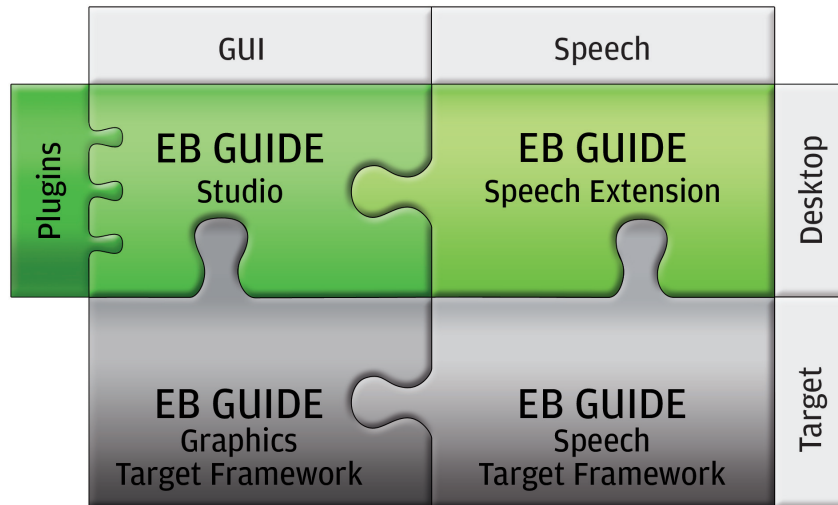
Experience intelligent HMI development

EB GUIDE Studio

Tool for graphical
HMI development

EB GUIDE Speech Extension

Tool add-on for speech dialog design



EB GUIDE Graphics Target Framework (GTF)

Runtime for the graphical
user interface

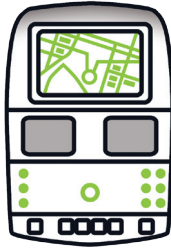
EB GUIDE Speech Target Framework (STF)

Runtime for speech dialog, connects
automatic speech recognition to text-
to-speech engine

Good reasons to use EB GUIDE

For head units:

- ▶ EB GUIDE is strong in menu and interaction logic.
- ▶ illustrated state charts, compound states and diagrams help to keep control even of big projects (~1 500 views).
- ▶ the popup concept from EB GUIDE Studio to EB GUIDE GTF is seamless.
- ▶ internationalization, skins and build variants support the development process.
- ▶ EB GUIDE GTF and EB GUIDE STF in combination allow multimodal systems.



For dashboards and clusters:

- ▶ EB GUIDE GTF2.x uses static memory, is very fast in startup and can run on small systems and provides optimized rendering.
- ▶ it is possible to connect components to GtfDatapool besides the state machine to control specific behavior.
- ▶ EB GUIDE GTF2.x is rock solid and proven: it is on the road with more than 1 million units.
- ▶ EB GUIDE Gtf5 can bring 3D content into your dashboard.



For further information:



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