# TES™
## Electronic Solutions



DESIGN 'N DRIVE

ENGINEER 'N ENJOY

CREATE 'N COOK

SKETCH 'N SOUND

COMPILE 'N CRUISE

CRAFT 'N COMMUNICATE

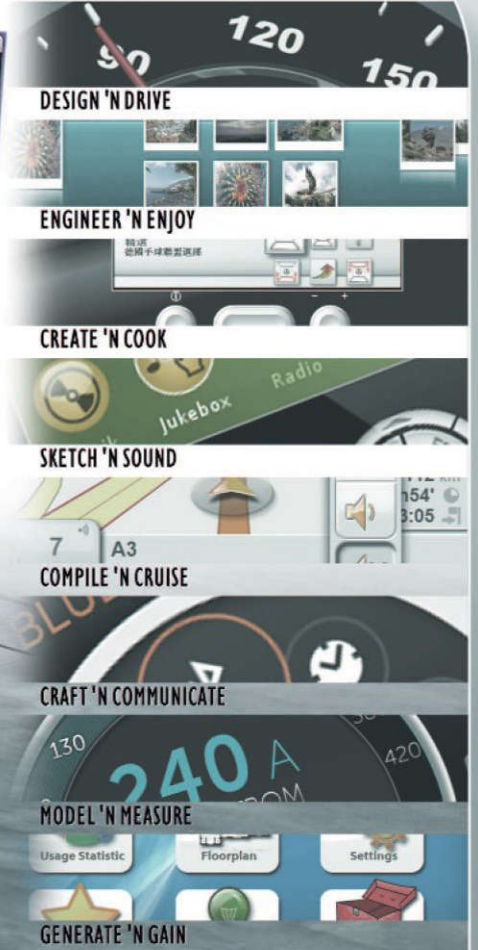MODEL 'N MEASURE

GENERATE 'N GAIN

# guiliani SDK
## Embedded HMI Framework

# > Guiliani – Embedded HMI Framework

## Graphical User Interface – Light and Innovative with Animations

**Create stunning graphical user interfaces for embedded systems within minutes!**

**Guiliani is the solution for Graphical User Interfaces on embedded systems.
It combines the comfort of a PC based development tool-chain with the benefits of a highly-optimized software framework, specifically designed for the use on embedded hardware.**

*Features:*
- Portability (from no-OS to any-OS, any μC, 16 bit & higher)
- Designed for embedded applications (low memory and CPU consumption)
- Optimized redraw strategy to maximize the system performance
- Customizability (tailoring the framework to cover your needs)
- Support of all common font engines (Freetype, Cleartype, Bitmap fonts)
- Independent of Graphics API

- Alpha blending
- Sub-Pixel Accuracy
- Support of binary or XML-definitions for GUI appearance
- Extendable set of transition- and animation-effects
- Runtime language switching and Localization (UTF-16 & UTF-8)

*Benefit from mature software that has been successfully used for years, in tens of thousands of devices already.
Start evaluating Guiliani now!*

> **In the market today, products differentiate more and more through their GUI, A GUI needs to provide a perfect representation of a company's corporate identity. Here, Guiliani can help.**

**Your GUI is developed on a PC and then can be compiled to any target device, regardless of hardware and OS platforms.**

Suppliers of ODM products can also benefit from Guiliani: Skinning and animation configuration can be achieved very quickly and easily at runtime via XML.

Guiliani offers an excellent total-cost-of-ownership by enabling an efficient development process combined with a flexible business model and competitive pricing.

### Guiliani Streaming Editor (GSE)

Your HMI is only a few clicks away. With the Guiliani Streaming editor (HMI Editor) you can easily design and modify your HMI within a single tool. A huge list of standard widgets is already included (e.g. radio-buttons, sliders, input-fields etc.) and the list can be extended by your own corporate or customized widgets.

### Reasons to use the HMI Editor

- Reduced time to market due to graphical HMI creation
- Design your HMI once with the GSE, simulate it on PC and deploy it to your target system without any modifications
- The PC simulation offers a life-like preview of the target HMI as the same code is used
- Change your Layout via mouse drag and drop
- Intuitive GSE workflow enables Engineers and Designers to create HMI solutions for the target system
- Extend the editor's functionality with customized widgets, commands and animations
- Reliable and robust tool chain
- The output files can be processed and modified with other applications
- Automatic text length checking (including multi-language support)

### Photo Bridge

The Photo Bridge enables you to draw HMI items in your preferred environment and to use the output in Guiliani:

- *Convert Photoshop PSD Files into the Guiliani format*
- *Easily design your Buttons, Images or other GUI Objects in your preferred Photoshop environment*
- *Separate the art- and design-work (using Photoshop) and the GUI realization*

TES Electronic Solutions GmbH is your end-to-end solution provider for your perfect HMI. TES offers state-of-the-art HMI and Graphic Software Solutions and is pleased to support you in all stages of your application development.

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