AUTOMOTIVE HMI DESIGN AT ITS BEST.

www.cgistudio.at
CGI Studio
HMI Design at its Best

Creating brilliant automotive HMIs can and should be easy. Socionext’s CGI Studio allows you to develop unique 2D/3D graphical user interfaces, directly to your hardware of choice and into the market - as fast as possible.

CGI Studio is a scalable and hardware independent software platform. The open architecture allows deep integration and automatization into your company’s workflow. The software enables creation of brilliant and customizable HMIs of all kinds for the automotive area and beyond. All this is accomplished with one tool while still retaining the necessities of fast bootup time, small footprints and the critical automotive standards and regulations of ASIL, MISRA and SPICE.
HMI Design
Step by Step

Building a perfect HMI is not a single step, but a process.
We can assist you in every stage of this development chain.

Our many years of experience allows us to bring in initial ideas, identify current market trends or check the feasibility, hardware requirements, and potential cost of your existing design. CGI Studio will make your vision come alive and get your HMI market ready.

It is the perfect tool to create individual GUIs with your own design, while including functional safety and multi-language support. Additionally, the CGI Studio environment already includes great tools for testing and fine tuning of your design.
Mentoring - Making your Ideas happen
Development - getting into action
Optimization - from good to better
Customization - meeting customers' needs
After Sales - from customer to friend
HMI Design Development Process
Prototyping - walk, before you run
Making Your Ideas Happen

Every great HMI starts with an initial idea.

Socionext’s close customer relationships and valuable feedback from our worldwide client base allows us to assist you in this critical stage of development. We can help you to elaborate a winning concept for your product.
Our central prototyping tool is the CGI Studio Scene Composer. This main tool allows you to import graphical artwork from your designers and create sceneries as they appear on the target system. Scene Composer also enables the combination of sceneries with business logic and exporting of content to the target hardware.

The seamless integration with tools such as Photoshop Importer and 3DsMax/Cinema4D Importer makes it easy to introduce your personal design or highlight your special corporate identity. CGI Player allows you to emulate and experience your design during development on the PC.

Walk Before You Run

Already have an idea for an outstanding HMI? Great! Let us assist you in checking important facts like feasibility, cost and hardware requirements.
Ready for Action

Is your HMI ready to run? Then CGI Studio can help you to integrate it on your hardware in an efficient and smooth manner.

The Courier Interaction Framework supports you in message handling and data binding between CGI Studio and various external components such as state machines. It is easily integrated into multiple environments with different operating systems and different application scenarios. CGI Player assists you in viewing and testing your generated HMI on various devices such as host environment, tablet, target hardware and even mobile phones.
Do you want to roll your project out worldwide? No problem! If you need Chinese language support, right to left Arabic layout, or if you just have some ASIL requirements in Europe, CGI Studio has got your back!

Meeting Customers’ Needs

HMI requirements are different in every project. CGI Studio makes it easy to handle HMI specifics and tailor it to your target customer.

If your market is the world, our multi-language tooling will help you to speak the same language as your customers. With CGI Globalization Support and Asset Library Shaper it’s an easy task. Safety is always the most important factor. Creating fantastic HMIs while still retaining ASIL conformity has never been easier than with CGI Studio Candera Safety.
From Good to Great

Optimization is a permanent requirement during the entire development process.

It is necessary to check for bottle necks, run-time performance, hardware utilization, hardware layer usage, frames per second, and much more. With CGI Analyzer, you can make sure that all your HMI s are running smoothly.

CGI Analyzer provides an intuitive graphical user interface to easily identify and track down performance bottle necks in HMI applications.
Our team assists with updates, trainings and maintenance support of your special product, on an on-site or remote basis depending on preference. We are not just selling a software platform; the goal is to share the HMI know-how and experience with our customers. We have long-term relationships with nearly all of our customers, some lasting a life-time. We hope the next customer, friend, and partner will be you.

From Customers to Friends

Do you want your HMI to live forever? Socionext can help you with that.
CGI Studio
Benefits

CGI Studio allows deep integration and automatization into your company’s workflow, due to a versatility of unique preferences.

- **Platform Support**
  Native support for all relevant automotive platforms

- **Scalability**
  Scalable GUI from low-end 2D up to highly advanced 3D graphics rendering

- **OpenGL ES**
  Full support for OpenGL ES 1.1, 2.0, and 3.0 including extensions

- **Workflow**
  Seamless automotive workflow from design to target

- **Performance**
  Highly optimized for runtime and memory performance

- **Safety**
  Integrated functional safety (ISO 26262)

- **Mature**
  Proven in many projects for leading OEM and TIER1 customers

- **Efficiency**
  Very efficient variant handling for large-scale projects with a lot of different car types
Supported Targets

CGI Studio supports a wide range of well-known platforms. Check out a few examples below.

Hardware

[Logos: Toshiba, Texas Instruments, socionext, Renesas, Qualcomm, Cypress, NXP, NVIDIA, Intel]

Software


and many more...
About us

Socionext Embedded Software Austria GmbH (SESA) in Linz, Austria, is a leading HMI tool provider and development partner for worldwide automotive and industrial customers.

SESA was founded in 2000 in Linz and is a subsidiary of Socionext Inc. based in Shin-Yokohama, Japan. Despite being part of the Socionext Group, SESA operates in a self-sufficient manner providing a product range developed entirely at the location in Linz, Austria.

SESA supports its customers with the CGI Studio tool environment as well as provision of software services mainly in the areas of HMI development and embedded software. SESA’s activities are driven by its close customer relationships and strong concentration on customers’ needs.
Based on this concept we concentrate all our activities to provide complete HMI solutions for the automotive market. We develop these solutions in a way to be reused also in other industries.

Our Vision

Openness, ease of use, best performance - CGI Studio combines these three major properties in one tool.
Our global network helps us to provide customers worldwide with CGI Studio. Our team assists with updates, trainings and maintenance support of your special product, not only remote but also on-site.