



# PLATFORM ENGINEERING



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A stable base platform is essential for development of robust products and solutions. The growing demand for faster, scalable, and more energy efficient solutions increasingly puts the focus back on the building blocks of all embedded systems - the platform.

At GlobalEdge, we leverage our proven expertise of over two decades to provide end-to-end platform services spanning design, development, integration, porting, migration, and testing of both hardware and software. Deep domain knowledge and expertise with all major hardware platforms and operating systems makes us a preferred partner for semiconductor companies, RTOS vendors, and major OEMs looking to augment time-to-market of their products.

Our strong presence in multimedia and infotainment allows us to design, develop, test, and maintain a wide range of consumer electronics ranging from thumb-drives to smart phones/tablets and entertainment devices.

Our commitment to platform services is evidenced by our Center of Excellence that constantly tracks trending technological advancements in the domain, identifies opportunities for improvement, and powers a range of complex solutions in-house.

## OUR OFFERINGS

- Services
  - Platform services
  - Platform bring up
  - Legacy code maintenance and migration
  - BSP support across multiple operating systems
  - Platform diagnostic test suite
  - Core and peripheral drivers design and development
  - Power management
- Integration services
  - Middleware and application support
  - Multimedia framework and drivers
  - Codec integration, porting, and optimization
  - System integration
- Android services
  - Bring up and porting
  - Upgrade and maintenance across platforms
  - Driver and middleware development and maintenance
  - Audio / video services
- Testing and automation
  - Test automation framework creation
  - Platform / multimedia testing
  - Pre-certification testing

## Spectrum

- Platforms and OS
  - Linux / Windows / RTOS / Android / Tizen / ThreadX
- Architectures
  - ARM / PowerPC / MIPS / x86 / Renesas / Black Fin / Tensilica / Goldfire
- Processors
  - Qualcomm MSM/SD / TI OMAP/DRA446 / Freescale MPC8815 / Renesas SH7724 / Samsung S3Cxx / ST Nomadik/SPEAR / NXP PNX / BridgeCo DM870
- Frameworks
  - OpenMax / GStreamer / DirectFB / OpenGL / Qt / DirectX
- Multimedia
  - AirPlay / Spotify / Last / Pandora / Sirius / Rhapsody / UPnP / DLNA
- Drivers
  - Core drivers
  - Storage drivers
  - Interface drivers
  - Other drivers

## SOLUTIONS & PRODUCTS

- UPnP/DLNA stacks

GlobalEdge has developed a very small footprint UPnP / DLNA Media Servers (DMS) and DLNA Media Renderer (DMR) stacks to store and share digital media, such as photographs, movies, or music, over a LAN to compatible TVs, PCs, mobile phones, and tablets.

## INDUSTRIES

- Automotive
  - OEM-specific component design and development
  - Firmware / middleware development, migration, and integration
  - Subsystem / ECU design and validation
- Industrial Automation
  - Hardware board design, BSP, and validation
  - Real-time monitoring and control software
  - Application-specific middleware development, re-engineering, and testing
  - HMI / DTM / control algorithm development
- Telecom
  - Wi-Fi offloading framework
  - Distributed SON - self configuration and optimization framework
  - OAM and zero-touch provisioning
  - RRM manager / QoS-aware scheduler
- Consumer Electronics
  - Hardware board support packages
  - Device drivers
  - Embedded devices and applications
  - RTOS
  - Enhancement and integration of COTS / CODECS

We would love to meet you and understand your business challenges and showcase our capabilities. For a free demo, please contact us at:

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## **About GlobalEdge**

GlobalEdge is a product engineering company creating intelligence in things for a new connected world. With a vision to be a leading technology company, transforming the embedded world with innovative solutions and services, we are a partner from innovation to implementation. We are focused on designing the behavior of devices using reusable solutions and components and addressing business challenges in Automotive, Consumer Electronics, Industrial Automation and Semiconductor industries through a combination of platform, wireless, connectivity, and cloud solutions. With a wide range of expertise in delivering solutions from 'Chip-to-Cloud', and in a world of connected things, we also deliver solutions that are specific to the Internet of Things. Our in-depth experience in platform play, multimedia, connectivity, and cloud solutions makes us a perfect fit as an IoT partner to global enterprises.