Product and Engineering Services

Differentiated solutions for digital engineering in a connected world
As customer expectations rise in an increasingly inter-connected world, companies are under greater pressure to accelerate product lifecycles and quicken the pace of product innovation. Competition in both established and emerging markets is driving organizations to develop and launch contextual products at lower costs while continually improving quality. Ensuring a positive user experience with every product release and service touch point is key to customer delight and product success.

New technologies being adopted across the product development, manufacturing and service lifecycle are bringing the physical products and their digital versions closer and evolving new business models.

The Industrial Internet of Things, Industry 4.0, Software Defined Products and Services and the evolving physical and digital integration have changed expectations of product functionality and interoperability. Every aspect of product engineering, continued development, manufacturing and support demands enhanced scrutiny and creative disruption.

Ushering the New Era of Digital Engineering

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Physical and Digital Integration is reshaping the ecosystem and making new demands on product capabilities
The digital transformation is forcing product companies to adopt next generation technologies and move to a more evolved engineering and manufacturing ecosystem.”

Product and Engineering Services for the Physical and Digital World

Capgemini Product and Engineering Services brings together deep domain and technology expertise for both the digital and the physical world of products. Consulting, technology and assets led solutions enable global companies to unlock the true potential of their product portfolios. With over 10,000 engineers across the globe and 30+ years of experience, we offer a highly differentiated, comprehensive portfolio of services and solutions to meet the clients’ needs during each stage of the product lifecycle. Our expertise in the core solution interventions is made scalable through our Rightshore® delivery model.
We are a global leader in the medical devices sector and partner with market leaders to constantly innovate, improve and keep their products market relevant. We help them to adopt technological advances for a more holistic disease management and to deliver cost-effective patient-centered care for enhanced clinical outcomes.

- Customers include 6 out of Top 10 medical device companies
- Work across 25+ product categories, including class III devices
- 200+ regulatory submissions across geographies
- ISO 13485 certified

Our Focus Areas:
- Medical Devices (Imaging, Therapeutic, IVD, Patient Monitoring and Surgical)
- Healthcare IT Products
- Life Sciences Products

Success Story:
We have a strategic engineering partnership with a leading global manufacturer of class II and class III cardiovascular and neuromodulation devices. We support product programs with new product development, sustaining engineering, verification and validation including regulatory submission support. We have helped the client embark on digital transformation aimed at delivering cost-effective, patient centered care in connected healthcare ecosystem.

Automotive

We are a trusted engineering partner for the entire automotive engineering value chain. We work with automotive OEMs, tier-1 suppliers and technology players to build connected solutions for in-vehicle information networks, entertainment and safety systems, and combined platform architectures. Our multi-disciplinary engineering expertise helps in ensuring product integrity to minimize product recalls and avoid potential cybersecurity threats. We help customers adopt next generation PLM landscapes to support the changing engineering collaboration models.

- Participated in over 100 production programs for 9 OEMS
- Member of USTAG committee, and played a key role in the preparation of ISO 26262 FDIS
- Premium member of AUTOSAR consortium
- Core member of the GENIVI consortium
- Renesas R-Car consortium partner

Our Focus Areas:
- Body Electronics
- Infotainment and Connected Car
- Instrument cluster and Cockpit
- Drive Control and Safety Systems
- Powertrain Systems

Success Story:
For over 12 years, we have been working with a leading global automotive tier-1 supplier to build new products in the areas of body control, instrument cluster and infotainment systems. We participated in over 30 production programs for 5 OEMS, with entire ownership of few programs. The new areas of engagement include ADAS, cybersecurity, V2X, HUD and cockpit engineering.
We have an industry recognized end-to-end portfolio of services and solutions for the aerospace sector. We partner with the industry leaders as they continue with advancements offering opportunities for improving reliability, safety, sustainability and efficiency of operations while building aircrafts that have new materials and leave a greener footprint.

- We work with the top 5 commercial aircraft OEMs
- We work with leading aero engine and tier 1 suppliers
- Our experience with aero engines: GE-90, CFM56, GE-115B, LEAP56, SaM146, TP400, SM-X, M88, Ardiden, TRENT 900, Open Rotor(R&D)
- Global delivery processes AS 9100C certified for compliance to aerospace standards
- Aerospace product documentation standards ATA 100, ATA iSpec 2200, DITA, AECMA SE, S1000D

**Our Focus Areas:**
- Avionics and IFE systems
- Aero Engines
- Aero Structures
- MRO
- Flight test and data management
- 3D enabled Technical Publications

**Success Story:**
For over 10 years, we have delivered value to a global aerospace group leveraging a right shored delivery model and over 900 engineers. We work with the customer across mechanical, structural, electronics, electrical, avionics, flight physics, materials engineering and technical publications for new aircraft programs. We enable and manage one of the most complex and efficient PLM backbone to achieve the product development goals for the customer.

We provide services to develop and implement technology systems with a focus on maximizing railroad safety, enhancing passenger comfort and boosting operational benefits to the operators. We work with customers for high-performing rail systems that meet the demand for sophistication in rail transport and the resulting increased focus on rail infrastructure, rail control systems and services.

- Engagements with leading rail transport networks and technology providers in Europe, North America and Australia
- Experience on Tram, Regional, Mainline and Metro rail systems
- Railway Academy established with Sogeti High Tech since 2012 as internal COE for Rail transport

**Our Focus Areas:**
- Train control and monitoring
- Wayside, signaling and traffic control systems
- Simulators, virtual and physical test benches
- Structure and interior systems
- 3D visualization and Augmented Reality
- Rail services

**Success Story:**
We developed a remote monitoring system and an integrated analytics platform for a leading train operator in Australia. The analytics platform uses the trackside devices to provide an aggregated view of wayside information management system. It tracks over 120 parameters per train and helps monitor 2500 trains per day.
Our Industry Focus

Industrial Products

We work with industrial product companies to bring differentiated products that can be easily integrated into existing and new ecosystems and meet regulations. We partner with customers for integrating the ‘Shop floor to the Board room’ and for Industry 4.0 evolutions for optimized manufacturing and growing demand for custom products.

- Dedicated offshore engineering centers for the world’s largest industrial products conglomerates
- Partnerships for two for the world’s leading IoT technology platforms
- Subject matter experts in automation, production, machine tools, BIM and heavy machinery systems

Our Focus Areas:
- Control and automation systems
- Building controls
- Electro-mechanical systems
- Production equipments
- Machine tools
- Energy management solutions

Success Story:
We helped a global diversified industrial company develop an IOT based platform to optimize the discrete compressor controller data across multiple sites and aggregate it through a cloud based solution. Analytical dashboards provided for effective remote control and monitoring of compressor health, field support and warranty mechanism.

Energy and Utility

We work with the energy and utility industry in complete digital transformation of its engineering value chain to respond to the rapid energy needs. We help power generation plants and utilities through efficient energy management, monitoring and control systems to provide higher quality service and improved productivity. We address the specialized requirements of renewable and non-renewable energy and oil & gas companies.

- Smart Energy Services to over 75 Energy and Utility clients around the world
- One of the world’s largest solution providers for Energy companies
- Experience across generation, distribution, and services for conventional, nuclear and renewable power engineering
- Proprietary solutions like the Digital Asset Lifecycle Management (D-iALM) solution
- Dedicated CoEs for the Energy sector

Our Focus Areas:
- Smart Utility and Metering systems
- Asset Management
- Remote Monitoring & Diagnostics
- Energy Management and Analytics
- Digital Oil Field and telemetry solutions
- Control system solutions

Success Story:
We work with the world’s leading energy engineering conglomerate to provide next generation PLM solutions for multiple energy sectors including renewables, wind, and energy management to enable global engineering networks.
Datacenter and Cloud

Third Platform, Software-defined Data Center and Hyper Convergence have re-shaped the world of information infrastructure. Over the past two decades, we have evolved as a trusted solution provider for multiple information infrastructure powerhouses and innovation-based start-ups, to faster introduce innovative product engineering solutions while improving quality and end-user satisfaction.

- Accredited as Innovation Partner by one of the world’s largest Information Technology company
- Engineering partner for leading computing systems, storage and network solution providers
- State-of-art offshore engineering centers and labs to support increasingly digital business models.

Our Focus Areas:
- Software Defined Data Center
- Hyper converged systems
- Hybrid cloud
- Big data
- Datacenter manageability and energy efficiency
- Security

Success Story:
Over the last 12 years, we have provided sustaining engineering services to a global information infrastructure leader across multiple product lines. Our services span 14 product lines and support over 35 product releases. Our innovative remote triage and diagnostics solution has helped them reduce service costs by 30%. We have helped product lines automate fixes and increase the end user ability to easily resolve issues leading to a much richer end-user experience and increased customer satisfaction.

Software Products

As a one-stop solution provider, we work with Independent Software Vendors across all stages of software product development to keep ahead on cutting edge technology, time-to-market and optimized R&D costs. We bring an integrated approach to service delivery with strong product lifecycle management methodology that encompasses ancillary services.

- COEs on all new-age software technologies
- User Experience (UX) center of excellence with a dedicated lab and state-of-art tools
- Functional expertise for engineering software products and industry specific software products

Our Focus Areas:
- System software
- Application software
- Internet based products
- Tools and lifecycle products

Success Story:
We have an active engagement for over 15 years with an ISV for the hospitality sector. We work on product development, enhancement, quality assurance, certification and migration for multiple product lines. We have contributed towards the development of software products for sales, catering, event and floor plan management, referral management and integration with third party systems such as PMS, EMS, POS.
About Capgemini and Sogeti

We view technology leadership through innovation and timely investments as the most important aspects for success of products engineering organizations.

Product Success: We keep pace with new generation technologies and the evolving product ecosystem so that you can launch new-age products with accelerated time-to-market and reduced costs. We can enable new revenue models for you in the connected world.

Proactive Investment: We invest in building future-ready solutions, technology labs, tools and accelerators.

Software Engineering: Our focus on software engineering and expertise to build physical products that are differentiated by the software content is best in class.

Digital Transformation: We bring global best practices for digital transformation of product engineering and product support processes to drive efficiency in your operations.

Predictable Execution: We have partnered with global leaders, and demonstrated a successful track record of multi-year program execution, co-innovation and in-market product support.

Global Network of Partners: We work with a large ecosystem of relevant technology and software partners across the globe to meet your needs.

Flexible Business Models: We work with multiple engagement models including outcome-based, Time and Material (T&M), fixed price, managed services and risk-rewards based models.

Global Presence and Aligned Delivery Models: Our Rightshore® delivery model, allows you to execute a sourcing strategy best suited to your business needs. We leverage our global presence to be close to your centers of innovation and markets.

Why Capgemini and Sogeti

With 180,000 people in over 40 countries, Capgemini is one of the world’s foremost providers of consulting, technology and outsourcing services. The Group reported 2014 global revenues of EUR 10.573 billion. Together with its clients, Capgemini creates and delivers business, technology and digital solutions that fit their needs, enabling them to achieve innovation and competitiveness. A deeply multicultural organization, Capgemini has developed its own way of working, the Collaborative Business Experience™, and draws on Rightshore®, its worldwide delivery model.

Sogeti is a leading provider of technology and software testing, specializing in Application, Infrastructure and Engineering Services. Sogeti brings together more than 20,000 professionals in 15 countries and has a strong local presence in over 100 locations in Europe, USA and India. Sogeti is a wholly-owned subsidiary of Cap Gemini S.A., listed on the Paris Stock Exchange.

Learn more about us at www.capgemini.com or www.sogeti.com