

Lab Informatics in a Connected Healthcare Ecosystem



- **Customers include 12 out of top 25 medical device companies and industry leaders in each segment**
- **Product engineering for 25+ product categories including class III devices**
- **200+ regulatory submissions across geographies**
- **ISO 13485 certified**

Laboratories in each healthcare segment, be it pharmaceuticals, medical devices, private and public healthcare services and regulatory bodies, are becoming a part of a connected healthcare network. Lab Informatics systems have to provide contextual software-driven capabilities that support a modern connected laboratory's operations.

The way lab informatics systems are designed, implemented and integrated with complementing systems and devices has to address the changes in R&D models, changes in business and commercial models and the changes in the healthcare regulatory environment for each connected stakeholder.

Capgemini is a global leader in the medical devices and life sciences sector. We partner with market leaders to constantly innovate, improve and keep their products market relevant. We help customers to adopt technological advances for a more holistic disease management and to deliver cost effective patient-centered care for enhanced laboratory and clinical outcomes.

Services for Lab Informatics

As a global systems integrator we address the challenges in a laboratory environment and bring forth the intended benefits from Lab Informatics.

- Increasing laboratory productivity and cost efficiency
- Reduction of labor-intensive, manual activities leading to increased focus on value-added activities such as test result, data interpretation, and decision-making
- Selecting and implementing effective lab-automation and information management strategies
- Improving the impact of lab systems by extended systems integration

Consulting	Application Implementation	Application and Systems V&V	Application Management	Lab Automation
<ul style="list-style-type: none"> • Lab Informatics portfolio rationalization • Global strategy • Business case development • System selection • Program management 	<ul style="list-style-type: none"> • Solution design and architecture • Application implementation • Application integrations • Custom applications • Data migration • Training and reporting 	<ul style="list-style-type: none"> • V&V consulting • Test Design, Execution, Reporting • Procedure (SOP) Development • Test-Automation-As-A-Utility • Test-Platform-As-A-Utility • Test-Labs-As-A-Utility 	<ul style="list-style-type: none"> • Transition planning and execution • Production support - L1 and L2 • L3 application maintenance • Software provider liaison • Application change control 	<ul style="list-style-type: none"> • Automation processes for sample management, pre/post-analytic steps • Robotic controls • LIMS, ELN, CDS • Technology infrastructure setup • Technical documentation

Our Best Practices

- Global deployment programs and Organizational Change Management
- Customer centric RightShore® delivery model
- Regulatory submissions (510(k) and PMA, FDA QSR 21 CFR 820, IEC 60601)
- Usability for more intuitive operator interfaces
- Communication protocols for interoperability between lab instruments and information systems
- Integrated tool chain across system engineering, development and V&V teams
- Solution accelerators for implementation of mobile medical applications across major platforms

The Capgemini Advantage

- Over 4000 people delivering solutions in the Medical Devices, Life Science and Healthcare sectors
- Over 20 years of experience
- Presence in over 40 countries
- Comprehensive portfolio of Product Engineering and Product Lifecycle Management
- Leadership in Cloud technologies and Cyber Security for Healthcare IT
- Cutting edge IoT solutions for connected healthcare



Success Stories

- Lab automation, process harmonization and LIMS, ELN, CDS integration under a common platform for a biotechnology company
- Re-design of lab informatics master data management processes for a pharmaceutical company
- LIMS implementation and validation at a biopharmaceutical manufacturer
- Reverse engineering and product documentation for a leading LIMS technology platform



About Capgemini

Now 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.

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