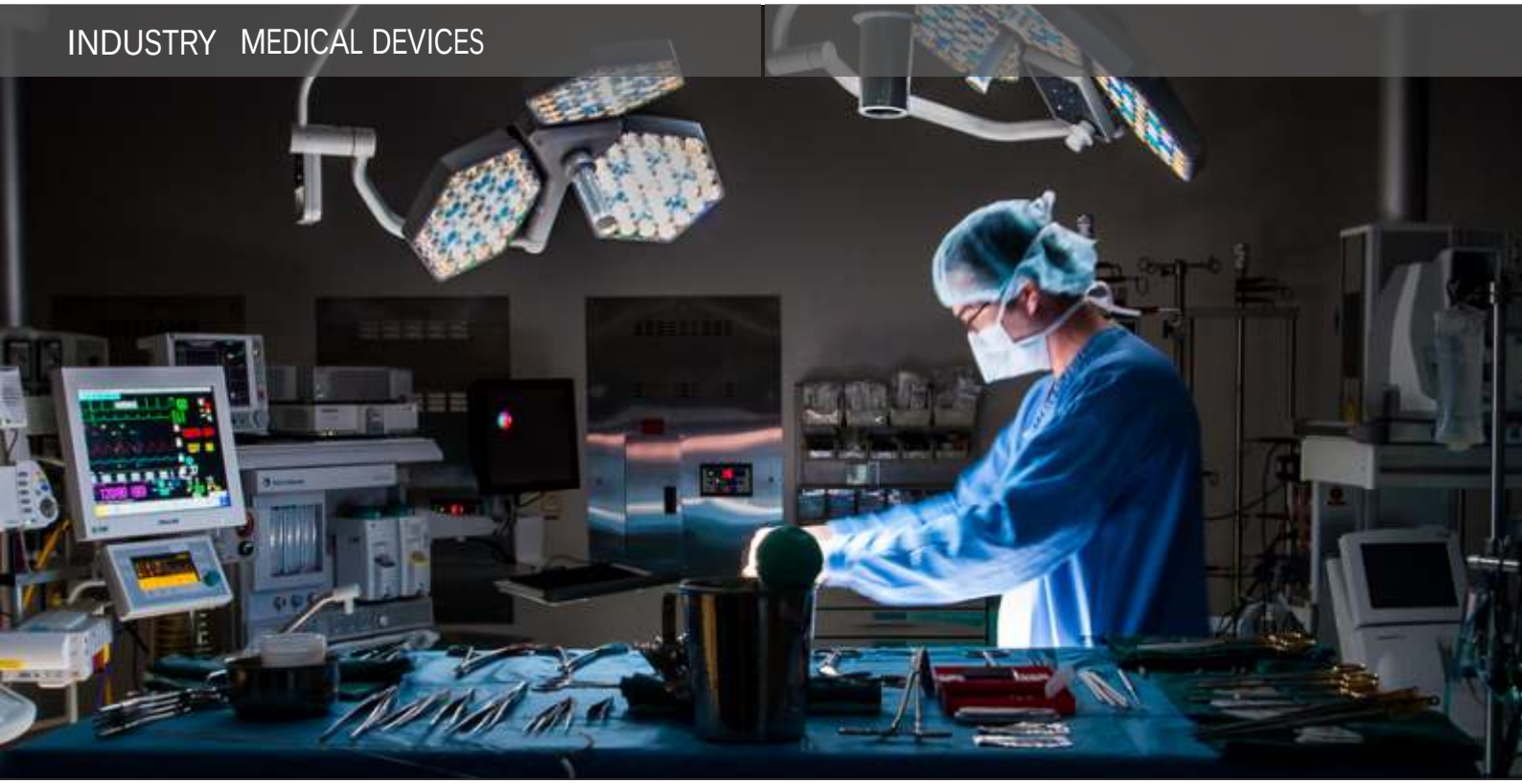
CASE STUDY
IMPLEMENTATION OF THE DICOM STANDARD

L&T Technology Services

INDUSTRY MEDICAL DEVICES



CLIENT PROFILE

Global Ultrasound Manufacturers

BUSINESS PERSPECTIVE

Digital Imaging and Communication in Medicine -DICOM is a De facto standard used in the hospitals and medical institutes for handling, storing, printing, and transmitting patient information specific to medical imaging.

SCOPE OF ENGAGEMENT

DICOM Imaging Modality Equipment interaction with HIS or RIS

DICOM Echo to verify network and connectivity
DICOM Worklist to retrieve the patient records from HIS
Updating the patient procedure details, MPPS details to HIS or RIS

DICOM Imaging Modality Equipment interaction with PACS Server

Storage and Storage commitment for Patient acquired Images and Structured Reports to the PACS/Image Server
Sending Patient Query or Study Root level Information to PACS Server
Retrieving the queried DICOM Images and information from PACS Server
Display the retrieved DICOM 2D Images and datasets in Workstation
Copying DICOM Images to CD and USB
Printing of DICOM Images
DICOM Messages logging details

OUR APPROACH

- Analysis of cost effective DICOM libraries and Requirement Gathering
- Architect and Design of Application
- Conformance Statement Updating
- DICOM Compliance Testing Unit, Integration and System Testing of DICOM compliance for all DICOM features using specified tools

TOOLS & TECHNOLOGIES

- Operating System : Windows XP Professional SP3
- Compiler / Editor : Microsoft Visual Studio 2010
- Source Control : Visual Source Safe
- UI Framework : Qt SDK
- Design tool : Enterprise Architect
- PACS Servers to Test : JDICOM, DVTk, PACSone, DICOMJet

FINAL RESULT

Successful compliance testing by third party for all DICOM features was conducted. The standards developed for DICOM have also resulted in significant cost savings.

ABOUT MEDICAL DEVICES

Our Medical Devices vertical has more than 20 years of experience in developing quality medical & healthcare equipment for the Indian and Global markets. Our skilled resource pool develops competitive products that meet International Regulatory requirements and reduce time-to-market while catering to the emerging markets. We provide extensive Testing, Validation & Verification services along with application software services in the medical domain.

ABOUT L&T TECHNOLOGY SERVICES

L&T Technology Services is a wholly owned subsidiary of Larsen & Toubro with focus in the engineering services space, partnering with many of the Fortune 500 companies globally. It offers design and development solutions throughout the entire product development chain across various industries such Industrial Products, Medical Devices, Transportation, Telecom and Hi-tech and Process Engineering. The company also offers solutions in the areas of Mechanical engineering Services, Embedded Systems Services, Product Lifecycle Management (PLM), Engineering Analytics, Power Electronics, M2M and the Internet of Things (IoT)

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