



**HEALTHCARE
SUPPLY CHAIN MANAGEMENT
COMPENDIUM**

**ENTERPRISE INFORMATION SYSTEMS
COMMITTEE**

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1.0 Introduction

With healthcare reform passing and increased pressures on profit margins, operating budgets and revenue cycles, the supply chain is becoming a focus area for healthcare leaders. Recognizing the criticality of the supply chain in reducing costs, improving patient safety and quality, healthcare leaders have begun to examine the ways they are currently managing their materials and supply chain and looking to their traditional suppliers such as GPOs for more innovation and value-added services. Additionally, leaders have been examining supply chain improvements applied to other industries to determine how they can be leveraged in healthcare.

By examining how industries such as high technology, consumer packaged goods, aerospace and defense and other complex industries manage their supply chain, healthcare leaders are able to leverage and customize solutions that can meet the demands and uniqueness of the healthcare supply chain. Experienced supply chain professionals from other industries have begun to enter the healthcare field bringing with them years of experience, successes and challenges, all of which can be leveraged for healthcare. Achieving supply chain performance improvements will require better understanding of the best practices, processes, analytical capabilities and theories behind supply chain management. Leaders from the clinical, financial and material management components of a hospital have begun to come together to address supply chain performance.

This compendium has been organized for 2011 to provide the following information:

- **Industry Certifications In Supply Chain Management** – Several industry certifications –in supply chain management exist and these organizations provide education, knowledge and experience in applying best practices in supply chain management.
- **Supply Chain Research and Advocacy Organizations** – From inside and outside of healthcare, this section identifies organizations providing research and information on healthcare and other industry supply chain performance issues and emerging approaches.
- **Academic Institutions Focused on Healthcare Supply Chain Management** – There are several leading academic institutions in the U.S. studying ways to improve the healthcare supply chain. This section lists some of those organizations, as well as other universities recognized as having leading supply chain management expertise.
- **LinkedIn Resources on Healthcare Supply Chain Management** – Social media sites are growing in their coverage of healthcare issues and healthcare supply chain. This section identifies some of the popular LinkedIn sites focused on supply chain management both inside and outside of healthcare.



- **Process Improvement Resources** – Supply chain process improvement methodologies and approaches exist and have resulted in significant ROI. This section identifies some of the more common methods and approaches used inside and outside of healthcare.
- **Data Standards and E-Commerce Exchanges** – Data standardization continues to be an issue in the healthcare supply chain but progress is being made. This section identifies the leading data standards organizations as well as leading e-commerce exchanges that are applying these standards to drive value.
- **RFID, RTLS and Serialization Advocacy Organizations** – These technologies continue to generate value and positive impacts on the healthcare supply chain. Regulatory issues continue to evolve. This section identifies the organizations leading the discussion on the use of RFID, RTLS and serialization, and sharing best practices and success stories.
- **U.S. Department of Defense Medical Logistics** – The U.S. Department of Defense has incredibly complex medical logistics and supply chain operations. Lessons learned on the technologies and processes used can help everyone. This section identifies several DOD IT programs that have made an impact on improving the medical supply chain.
- **Supply Chain Management Technologies** – This section provides a short sample of the many technologies in material management, RFID, RTLS, business intelligence, supply chain analytics and optimization technologies and supply dispensing technologies.

The inclusion of an organization name, product or service in this compendium should not be construed as a HIMSS endorsement of such organization, product or service, nor is the failure to include an organization name, product or service to be construed as disapproval.



2.0 Industry Certifications in Supply Chain Management

The organizations listed below have been recognized as leaders for documenting and educating professionals on the tenants of materials management and supply chain management. While these organizations tend to be focused on manufacturing and logistics and other industries, the basic supply chain practices they teach have application to healthcare.

- **CPIM and CSCP Certifications from APICS** - The Association for Operations Management is the global leader and premier source of the body of knowledge in operations management, including production, inventory, supply chain, materials management, purchasing, and logistics. Since 1957, individuals and companies have relied on APICS for its superior training, internationally recognized certifications, comprehensive resources, and worldwide network of accomplished industry professionals. The mission of APICS is to build knowledge and skills in operations management professionals to enhance and validate abilities and accelerate careers. APICS helps members and their organizations successfully compete and build a stronger global economy. APICS offers two certification programs, [Certified in Production and Inventory Management](#), and [Certified Supply Chain Professional](#). APICS certifications are recognized worldwide as standards of professional excellence and quality within the manufacturing and service industries. www.apics.com
- **Association for Healthcare Resource and Materials Management** - The Association for Healthcare Resource and Materials Management (AHRMM) is the premier healthcare resource and materials management association. AHRMM's focus is to lead, educate and promote the healthcare resource and materials management profession by supporting its membership in the delivery of cost-effective, quality healthcare. The organization proactively anticipates healthcare reform and assists members in transitioning the materials and resource management field and in managing change. AHRMM is an active proponent in the development, adoption and use of data standards for supply chain management. AHRMM provides education and training to assist in achieving AHA certifications such as the Certified Material and Resource Professional (CMRP). www.ahrmm.org
- **SCOR Model - Supply Chain Council** – Supply Chain Council was organized in 1996 by Pittiglio Rabin Todd & McGrath (PRTM) and AMR Research, and initially included 69 voluntary member companies. The Supply Chain Operations Reference model (SCOR®) is the product of the Supply Chain Council, Inc. (SCC), an independent, not-for-profit, global corporation with membership open to all companies and organizations interested in applying and advancing the state-of-the-art in supply chain management systems and practices. The SCOR-model captures the Council's consensus view of supply chain management. While much of the underlying content of the Model has been used by practitioners for many years, the SCOR-model provides a unique framework that links business process, metrics, best



practices and technology features into a unified structure to support communication among supply chain partners and to improve the effectiveness of supply chain management and related supply chain improvement activities. The Supply Chain Council provides training and certifications in SCOR model implementations. <http://supply-chain.org>



3.0 Supply Chain Research and Advocacy Organizations

The following is a partial list of organizations that sponsor activities or conduct market research relating to the healthcare supply chain. (Please note: information provided has been copied or paraphrased from the websites maintained by the organizations listed.)

- **GS1 Healthcare** - GS1 Healthcare US is a new industry group that focuses on driving the adoption and implementation of GS1 Standards in the healthcare industry to improve patient safety and supply chain efficiency. GS1 Healthcare US brings together members from all segments of the healthcare industry to address the issues that most impact healthcare in the United States. It works closely with GS1 on global standards initiatives including development and implementation of standards designed to facilitate pedigree tracking in pharmaceutical manufacture and track and trace/product recall activities required by good manufacturing practices and regulations being developed and promulgated for patient safety by the Food & Drug Administration. www.gs1.org
- **Healthcare Information and Management Systems Society** - HIMSS is a cause-based, not-for-profit organization exclusively focused on providing global leadership for the optimal use of information technology (IT) and management systems for the betterment of healthcare. Founded 50 years ago, HIMSS and its related organizations have offices in Chicago, Washington, DC, Brussels, Singapore, Leipzig, and other locations across the United States. HIMSS represents more than 30,000 individual members, of which two thirds work in healthcare provider, governmental and not-for-profit organizations. HIMSS also includes over 470 corporate members and more than 85 not-for-profit organizations that share our mission of transforming healthcare through the effective use of information technology and management systems. HIMSS frames and leads healthcare practices and public policy through its content expertise, professional development, and research initiatives designed to promote information and management systems' contributions to improving the quality, safety, access, and cost-effectiveness of patient care.www.himss.org
- **Council of Supply Chain Management Professionals** - Founded in 1963, the Council of Supply Chain Management Professionals (CSCMP) is the preeminent worldwide professional association dedicated to the advancement and dissemination of research and knowledge on supply chain management. With over 8,500 members representing nearly all industry sectors, government, and academia from 67 countries, CSCMP members are the leading practitioners and authorities in the fields of logistics and supply chain management. <http://cscmp.org>
- **AMR Research/Gartner Group** – AMR Research was purchased by Gartner Group in December of 2009. AMR has long been recognized as an industry leader in supply chain research, benchmarking reports and other products. In 2010, Gartner published its second



annual Healthcare Supply Chain Top 25. Consistent with the first annual publication, this research focuses on the healthcare value chain's pursuit of high-quality patient care at optimal economic cost, which is our definition of "value" in healthcare. Gartner built upon last year's methodology to produce a Top 25 ranking for 2010 that identifies the organizations striving for supply chain excellence and better patient care.

http://www.gartner.com/DisplayDocument?id=1472214&ref=g_fromdoc

- **The Institute for Operations Research and the Management Sciences** – INFORMS is the largest professional society in the world for professionals in the field of operations research (O.R.), management science, and business analytics. Often referred to in healthcare as Management Engineering, Operations Research is the other accepted term and INFORMS serves the scientific and professional needs of Operations Researchers and those in the Management Sciences including educators, scientists, students, managers, and consultants. The Institute serves as a focal point for O.R. professionals, permitting them to communicate with each other and reach out to other professional societies, as well as the varied clientele of the profession's research and practice. www.informs.org
- **Health Industry Business Communications Council** - The Health Industry Business Communications Council (HIBCC) is an industry-sponsored and supported nonprofit organization. Its primary function is to facilitate electronic communications by developing appropriate standards for information exchange among all healthcare trading partners. HIBCC is involved in a number of critical areas, including electronic data interchange message formats, bar code labeling data standards, universal numbering systems, and the provision of databases that assure common identifiers. The organization plays a major advocacy and educational role in the healthcare industry and serves as the forum through which consensus can be reached as it electronically transforms itself for twenty-first century commerce. www.hibcc.org
- **Health Industry Distributors Association** - The Health Industry Distributors Association (HIDA) is the international trade association representing medical products distributors. HIDA members serve a vital role in the medical products supply chain, and are critical to ensuring healthcare access, safety, efficiency, and value. Through its outreach efforts, HIDA seeks to protect and advance the interests of healthcare distributors and the overall supply chain. A wide variety of issues currently impact healthcare distributors and their hospital, extended care, and physician/alternate site customers. HIDA advocates on these issues and actively encourages members to contact their Congressional, state and local representatives using a range of HIDA resources. From education programs and benchmarking studies to business tools and resources, HIDA efforts are to ensure members have the business and industry information they need to perform profitably in today's complex healthcare supply chain. www.hida.org



- **Health Industry Group Purchasing Association** - The Health Industry Group Purchasing Association (HIGPA) is a broad-based trade association that represents 16 group purchasing organizations, including for-profit and not-for-profit corporations, purchasing groups, associations, multi-hospital systems and healthcare provider alliances. HIGPA's mission is to advocate on behalf of healthcare group purchasing associations, to provide educational opportunities designed to improve efficiencies in the purchase, sale and utilization of all goods and services within the health industry, and to promote meaningful dialogue between GPOs. HIGPA's group purchasing members include for-profit and not-for-profit corporations, purchasing groups, associations, multi-hospital systems and healthcare provider alliances. www.higpa.org
- **Institute for Healthcare Improvement** - The Institute for Healthcare Improvement (IHI) is an independent, not-for-profit organization helping to lead the improvement of healthcare throughout the world. IHI works to accelerate improvement by building the will for change, cultivating promising concepts for improving patient care, and helping healthcare systems put those ideas into action. IHI is a reliable source of energy, knowledge, and support for a never-ending campaign to improve healthcare worldwide. The Institute's aim is to improve the lives of patients, the health of communities, and the joy of the healthcare workforce by focusing on an ambitious set of goals adapted from the Institute of Medicine's six improvement aims for the healthcare system: Safety, Effectiveness, Patient-Centeredness, Timeliness, Efficiency, and Equity. IHI works with health professionals throughout the world to accelerate the measurable and continual progress of healthcare systems toward these bold objectives, leading to breakthrough improvements that are truly meaningful in the lives of patients. <http://www.ihl.org>
- **Strategic Marketplace Initiative** - The Strategic Marketplace Initiative (SMI) is a consortium of healthcare supply chain executives united to reengineer and advance the future of the healthcare supply chain for the purpose of improving the overall healthcare marketplace in the United States. SMI provides critical mass representing key industry stakeholders and decision makers within the healthcare supply chain interacting and sharing best practices. Members include transactional trading partners from integrated delivery networks (IDNs) and academic medical centers; manufacturers of medical surgical, diagnostic and pharmaceutical supplies; capital equipment and medical device companies; distributors; service providers; IT companies; and other key suppliers with direct involvement in the healthcare supply chain ultimately impacting patient care delivery. Through SMI, members have discovered an open, non-competitive forum for innovative idea-exchange and the development of collaborative process improvement initiatives. Multidisciplinary teams develop tools and techniques that members can take back to their organizations and customize to meet their own unique needs. As SMI is dedicated to improving the entirety of the healthcare supply chain, all such solutions are shared free of charge with the healthcare marketplace. www.smisupplychain.com



4.0 Academic Institutions for Healthcare Supply Chain and Supply Chain Management in Other Industries

The following academic organizations are researching supply chain management in both healthcare and other sectors. There are many other institutions also with supply chain management programs and this list is not meant to be all inclusive.

- **Health Sector Supply Chain Research Consortium – Arizona State University** - The Health Sector Supply Chain Research Consortium (HSRC-ASU) is a research group within the W. P. Carey School of Business at Arizona State University. The consortium was founded in 2004 to bring together health sector organizations and academic researchers to conduct research on topics related to the strategic management of the healthcare supply chain. HSRC-ASU engages in cutting-edge research on the healthcare supply chain and functions as a boiler room for new ideas to drive excellence and innovation in the healthcare supply chain. HSRC-ASU research is developed through collaboration with member organizations representing multiple stakeholders across the healthcare supply chain. HSRC-ASU research is responsive to industry needs and provides guidance and opportunity to raise the standard of management and policy practice surrounding the healthcare supply chain. <http://wpcarey.asu.edu/hsrc-asu/index.cfm>
- **University of Arkansas - The Center for Innovation in Healthcare Logistics** – The Center for Innovation in Healthcare Logistics is a research unit in the College of Engineering at the University of Arkansas and is an industry-university partnership that leads a nationwide effort to identify and foster system wide adoption of ground-breaking healthcare supply chain and logistic innovations. These cost-effective innovations can put the right materials in the hands of caregivers when and where they are needed. Research will target supply chain and material flow aspects of healthcare operations that can be addressed with better information and improved logistics systems and processes. The goal is to recover significant costs and achieve new efficiencies, while enhancing safety, quality and equity of patient care. CIHL is collaboration among researchers at the University of Arkansas' flagship campus in Fayetteville, healthcare provider organizations, and industrial sponsors including Wal-Mart, regional Blue Cross Blue Shields, VHA, Procter and Gamble and IBM. <http://cihl.uark.edu/>
- **Pennsylvania State University – Smeal College of Business – Supply Chain and Information Systems Program** - The PSU program integrates source (strategic procurement and supply management), make (manufacturing and service operations), deliver (demand fulfillment), and return (reverse logistics, recycle, and remanufacture) processes, along with information systems as the critical enabler of supply chain efficiencies and responsiveness. These core processes span traditional functional boundaries and encompass important activities such as information management; purchasing; inventory flow scheduling and control; logistics-production coordination; transportation systems operation and



infrastructure; and customer service, order fulfillment, and distribution facilities management.

5.0 LinkedIn Groups Focused on Healthcare Supply Chain

The following groups on LinkedIn are focused on topics and networking of professionals interested and working in the Healthcare supply chain industry and processes.

Healthcare Supply Chain Professionals

<http://www.linkedin.com/groups?mostPopular=&gid=164842>

Healthcare Supply Value Analysis

http://www.linkedin.com/groups?mostPopular=&gid=1928206&trk=myg_ugrp_ovr

Hospital Spend Analytics and Benchmarking

http://www.linkedin.com/groups?mostPopular=&gid=2082298&trk=myg_ugrp_ovr

Healthcare Management Engineers

http://www.linkedin.com/groups/Healthcare-Management-Engineers-HME-83522?trk=myg_ugrp_ovr

RFID, RTLS, Sensors and Wireless in Healthcare

<http://www.linkedin.com/groups?mostPopular=&gid=149448>

Theory of Constraints

<http://www.linkedin.com/groups?mostPopular=&gid=149448>

SCOR Users Group

<http://www.linkedin.com/groups?mostPopular=&gid=1955625>

Global Lean Healthcare Network

http://www.linkedin.com/groups?mostPopular=&gid=71231&trk=myg_ugrp_ovr

Group Purchasing Organizations

http://www.linkedin.com/groupsDirectory?itemaction=mlk&anetid=48137&impid=&pgkey=anet_search_results&actpref=anetsrch_name&trk=anetsrch_name&goback=%2Egdr_1297371237572_1



6.0 Process Improvement Resources

Process improvement methods and initiatives have resulted in generating performance improvements in the healthcare supply chain as well as other industry supply chains. Providers have conducted process improvement events to eliminate waste, reduce cycle times and optimize capacity. Provided below are some of the common process improvement methods used in both healthcare and other industries looking to improve supply chain performance.

- **Theory of Constraints** – A management philosophy that drives process improvement, TOC was created by Dr. Eli Goldratt. www.goldratt.com TOC has been used extensively in other industries to optimize cycle times and reduce supply chain costs and response times.
- **Lean Six Sigma** – LSS is a process improvement methodology designed to improve quality, reduce or eliminate waste and non-value added activities and contribute to overall improved organizational performance.
- **Strategic Sourcing** – Strategic sourcing is a process and management approach to continuously evaluate the purchasing activities of an organization. Strategic sourcing includes many activities including evaluating sources of supply, rationalizing the supplier base, leveraging purchasing power and focusing on total cost of ownership.
- **Operations Research** – Also known as Management Engineering in healthcare, Operations Research applies mathematical modeling, statistical analysis and mathematical optimization techniques and technologies to analyze operational problems and determine courses of action. Operations research is often used to optimize capacity, inventories and supply chain networks, as well as perform modeling and simulation of supply chains.
- **Supply Chain Performance Metrics** – Performance metrics vary across industries, but almost always exist for the supply chain. The SCOR model has emerged as a industry starting point for many metrics.
- **Corporate Performance Management** – The management processes and associated technologies to measure and manage corporate strategy and operations. Involves use of key performance metrics, analytics, dashboards and concepts such as the balanced scorecard.



7.0 Supply Chain Data Standards and E-Commerce Exchanges

Exchange of standardized data is a significant inhibitor to healthcare supply chain efficiency. To help manage all of this information, standards groups have been working to reduce healthcare costs by publishing standards and promoting their use in the healthcare supply chain. The following are some organizations leading the way in helping to standardize healthcare supply chain data exchange as well as other industry data standards who have solved similar problems.

- **GS1 Healthcare** - GS1 Healthcare US is a new industry group that focuses on driving the adoption and implementation of GS1 Standards in the healthcare industry to improve patient safety and supply chain efficiency. GS1 Healthcare US brings together members from all segments of the healthcare industry to address the issues that most impact healthcare in the United States. It works closely with GS1 on global standards initiatives including development and implementation of standards designed to facilitate pedigree tracking in pharmaceutical manufacture and track and trace/product recall activities required by good manufacturing practices and regulations being developed and promulgated for patient safety by the Food & Drug Administration. www.gs1.org
- **UNSPSC** - The United Nations Standard Products and Services Code® (UNSPSC®) provides an open, global multi-sector standard for efficient, accurate classification of products and services. The UNSPSC offers a single global classification system that can be used for: (1) Company-wide visibility of spend analysis; (2) Cost-effective procurement optimization; and (3) Full exploitation of electronic commerce capabilities. www.unspsc.org
- **Food and Drug Administration – Unique Device Identifier (UDI)** – The Food and Drug Administration Amendments Act of 2007 act includes language related to the establishment of a Unique Device Identification System. This new system when implemented will require (1) the label of a device to bear a unique identifier, unless an alternative location is specified by FDA or unless an exception is made for a particular device or group of devices; (2) the unique identifier to be able to identify the device through distribution and use; and (3) the unique identifier to include the lot or serial number if specified by FDA. www.fda.gov
- **GHX** - GHX connects 3,900 healthcare providers to more than 350 manufacturer and distributor divisions and has the largest footprint in healthcare supply chain automation. GHX eliminates the barriers between healthcare providers and suppliers, reduces the costs of doing business across trading partners and delivers 360° visibility into your supply chain data. This enables greater focus on patient care, lower costs, streamlined operations and 360° supply chain performance. www.ghx.com



8.0 RFID, RTLS and Serialization Advocacy Organizations

The following organizations are involved in RFID and RTLS technology applications to healthcare as well as initiatives in serialization of the pharmaceutical supply chain. This list is not meant to be all inclusive but representative of some of the organizations working in this area.

- **RFID Healthcare Consortium** - The RFID in Healthcare Consortium (RHCC) is a not-for-profit subsidiary organization of The International RFID Business Association (RFIDba). It was founded in 2008 to initially address EMI issues with RFID & RTLS technologies but has recently transformed itself into a full-fledged trade organization. The Consortium is an educationally focused, vendor neutral, technology and frequency agnostic organization dedicated to promoting the use and adoption of RFID and RTLS technologies in the healthcare, assisted living and nursing home industries. RHCC can be found on the Web at <http://www.rfidba.org> and on LinkedIn Group at http://www.linkedin.com/groups?mostPopular=&gid=149448&trk=myg_ugrp_ovr
- **Rx-360** - Rx-360 is a consortium being developed by volunteers from the Pharmaceutical and Biotech industries which includes their suppliers. The purpose is to enhance the security of the pharmaceutical supply chain and to ensure the quality and authenticity of the products moving through the supply chain. The individuals developing this concept are working in the best interest of patients. They are a non-profit organization with the mission to create and monitor a global quality system that meets the expectations of industry and regulators that ensures patient safety by guaranteeing product quality and authenticity throughout the supply chain. Rx-360 can be found on the Web at www.rx360.org and on LinkedIn Group at http://www.linkedin.com/groups?mostPopular=&gid=1768957&trk=myg_ugrp_ovr



9.0 United States Department of Defense Healthcare Supply Chain and Logistics Organizations

The United States Department of Defense has been designing and implementing innovative approaches for managing the complexity of the military medical logistics supply chain. Provided below is a link to some of the major initiatives in DOD for medical logistics.

- **DMLSS** - Defense Medical Logistics Standard Support – The Defense Medical Logistics Standard Support delivers an automated and integrated information system with a comprehensive range of medical material, equipment, war reserve materiel and facilities management functions for the Military Health System.
http://health.mil/mhscio/programs_products/jmis/dhss/products/dmlss.aspx -
- **JMAR** - Joint Medical Asset Repository; a Department of Defense Military Health System Web-based application providing access to medical asset information for any user, any time, on any machine. http://health.mil/mhscio/programs_products/jmis/dhss/products/jmar.aspx
- **PMITS** - Patient Movement Items Tracking System; a Department of Defense Military Health System application that electronically tracks medical equipment used during aeromedical evacuations.
http://health.mil/mhscio/programs_products/jmis/dhss/products/pmits.aspx
- **DCAM** -Defense Medical Logistics Standard Support Customer Assistance Module; allows the Department of Defense Military Health System users to view and order from electronic supply catalogs.
- **DMMPO** – The Defense Medical Material Program Office is a joint activity under the direction, authority and control of the Secretary of Defense to be the focal point for medical standardization within the Department of Defense. <https://www.dmsb.mil/>
- **Defense Logistics Agency** – DLA procures over \$4.5 billion in medical supplies and material for the DOD. The DLA mission is to provide the military medical community the products and services needed every day for every crisis around the world. DLA enables its customers and commercial trading partners a convenient, state-of-the-art, readily accessible Web portal that enables them to efficiently and effectively accomplish their business.
<https://dmmonline.dscpl.dla.mil/Portal/>



10.0 Supply Chain Management Technologies

Information technology is a significant enabler of supply chain performance. Provided below is a sample of the material management, RTLS, business intelligence, supply chain optimization technology and supply dispensing technology providers in the marketplace.

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- **Lawson** - Lawson provides enterprise software and service solutions in the manufacturing, distribution, maintenance, and service industries including healthcare. Over 4,500 customers use Lawson software throughout the world. Lawson provides ERP solutions – including finance, manufacturing, distribution, maintenance, and supply chain - complemented by solutions for human capital management, customer relationship management, business intelligence and corporate social responsibility. Lawson also has over 1,700 professional consultants for system implementation services and support. <http://www.lawson.com>
- **McKesson** - The Pathways Materials Management™ supply chain management solution links the entire healthcare supply chain into a single, integrated process—from requisitioning through invoice matching, including usage tracking, contract compliance and rebate attainment—streamlining and automating supply chain management functions. McKesson also integrates additional mission-critical areas, through healthcare-specific scheduling, OR management and performance management. www.mckesson.com
- **MEDITECH** – A leading software vendor in the healthcare informatics industry for 40 years, MEDITECH provides integrated software solutions that meet the information needs of healthcare organizations worldwide. The organizations we serve include hospitals, ambulatory care centers, physicians' offices, long term care and behavioral health facilities, and home health organizations. www.meditech.com
- **Oracle** - Oracle's Healthcare Provider solutions deliver a powerful, comprehensive combination of technology and business applications. Thousands of healthcare organizations around the world rely on Oracle to help them increase clinical performance and integrate business processes across the entire healthcare continuum. Oracle is #1 among healthcare providers. Ten of the top 12 of Fortune Magazine's Global 500 healthcare organizations run Oracle Applications and 70 percent of the top multi-hospital systems in the United States run Oracle technology. www.oracle.com



- **JDA** – JDA is a leading provider of innovative supply chain management, merchandising and pricing excellence solutions. JDA software solutions can support business processes such as demand forecasting, supply planning, inventory optimization, transportation planning and optimization, supplier management, performance management and other supply chain analytic needs. More than 6,000 companies of all sizes make optimal decisions that improve profitability and achieve real results in the discrete and process manufacturing, wholesale distribution, transportation, retail and services industries. www.jda.com
- **CareFusion** – CareFusion provides the solutions and insight to manage medications and supplies throughout the hospital. The CareFusion Pyxis® Perioperative Supply Dispensing Technology Solutions help ensure that clinicians have the supplies and medications they need at the right place at the right time. Featuring secure and open access touch-to-take technology, staff can electronically document inventory usage, capture charges and reorder supplies. CareFusion provides solutions to merge Operating Room Management Information Systems (ORIS) with supply dispensing technology thereby improving data accuracy and streamlining clinical workflow by reducing the need for manual documentation. The Pyxis ProcedureStation™ system with ORIS Integration automatically transmits supply usage information directly into the patient’s records. With data generated almost every minute of every day, CareFusion analytics tools turn raw information into actionable intelligence, providing visibility as to how the facility is performing and pinpointing potential areas for improvement. www.carefusion.com
- **SAS** – SAS is the world’s leading business intelligence software provider. SAS technologies are used in many industries including healthcare. More than 500 U.S. hospitals use SAS software to improve their quality of care, productivity and patient/staff relations, enable better and more informed decisions and drive their organizations forward. SAS Supply Chain Intelligence solutions turn data into knowledge and develop unique insights about demand patterns, supply networks, operations and customer service requirements. SAS provides the ability to combine data from other data sources, such as transactional and operational systems, to provide more comprehensive analysis and reporting to better meet corporate business requirements. The result is improved efficiency and effectiveness of the overall supply chain, increased profits and higher customer satisfaction. www.sas.com
- **Ekahau** - Ekahau provides location-enabling enterprise Wi-Fi networks and providing cost effective and accurate positioning solutions for locating people, assets, inventory and other objects using wireless enterprise networks. The Ekahau RTLS (Real Time Location System) offers a simple to use, healthcare asset tracking solution for locating equipment using a Web browser, even when equipment is locked behind closed doors. Ekahau’s RTLS healthcare asset management system has been designed from the ground up to cater to the needs of hospitals. By leveraging an existing Wi-Fi infrastructure, the complete system can be up and running in a few weeks with no disruption to patient care or the facilities themselves. www.ekahau.com



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