

smiths medical

bringing technology to life



PharmGuard®

Infusion Management Software

INTEGRATED INFUSION FOR SECURE COLLABORATION

- Secure, consistent outcomes
- Patient-centered software that runs powerful self-diagnostic tools for maintenance and service
- Proactive security to protect your infrastructure

PATIENT-CENTERED INTEROPERABILITY INVOLVES THE WHOLE TEAM

PharmGuard® software helps minimize opportunities for human error, reduces time-consuming paperwork, streamlines workflow and integrating complex systems. PharmGuard® Interoperability software platform is designed to help team members focus on core tasks, perform their work at higher levels, and deliver better patient care.

ESSENTIAL CLINICAL PERFORMANCE

Information security (cyber security/information assurance) for patient safety is a new but mounting concern, with infrastructure hacking becoming more common. Smiths Medical is committed to being an industry leader. We were among the first to establish collaborative information security conversations with government experts, including the National Cyber Center of Excellence (NCCoE) of the National Institute of Standards and Technology (NIST), along with the FDA. We're helping set information security standards and best practices for the industry,

including a Cooperative Research and Development Agreement (CRADA) with the NCCoE on security for medical infusion pumps.

Information security for patient safety
PharmGuard® software always asks for a human confirmation

- Designed to reduce the risk of medication error for improved quality of care at lower total cost
- Designed to improve patient safety by reducing opportunities for human error and allowing near real-time clinical decision support

SMOOTH, EFFICIENT ENTERPRISE-WIDE INTEGRATION FOR A SINGLE ECOSYSTEM

- Swift and simple deployment of integration tools
- Encrypted data transmission integrates system components facility and enterprise-wide
- Documents clinical and infusion status for simple documentation verification
- Updates patient infusion information in near real-time on your EMR system

RECOMMENDED SYSTEM REQUIREMENTS



PharmGuard® Infusion Management Software

PharmGuard® Server Software

Install on hospital-selected vendor-independent hardware
 Microsoft® Windows Server® 2008 R2/2012 (native or virtualized)
 Requires Microsoft® .NET Framework v4.5
 Supports VMWare® ESX 5.X, and Microsoft® Windows Server® 2008 Hyper-V®
 Transactions: XML/SOAP via secure sockets using SSL

Single Server Configuration

Hardware	Combined web, database, medical device application and interoperability platform with: Two 64-bit processors designed or certified for Microsoft® Windows Server® 2008 R2 or Windows Server® 2012 48 GB of RAM with 16 GB reserved for SQL Server® 1 TB for data storage for 1,000 devices at full utilization for two years	Software	Microsoft® Windows Server® 2008 R2/2012 Microsoft® Internet Information Server (IIS) Microsoft® SQL Server® 2008 R2/2012 Microsoft® .NET Framework v4.5
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Multi-Server Configuration

Hardware	Separate database server with: Two 64-bit processors designed or certified for Microsoft® Windows Server® 2008 R2 or Windows Server® 2012 16 GB reserved for SQL Server®	Software	Microsoft® SQL Server® 2008 R2/2012 Microsoft® .NET Framework v4.5
	Separate web server with: Two 64-bit processors designed or certified for Microsoft® Windows Server® 2008 R2 or Windows Server® 2012 16 GB of RAM 40 GB+ of available disk space		Microsoft® Windows Server® 2008 R2/2012 Microsoft® Internet Information Server (IIS) Microsoft® .NET Framework v4.5
	Separate medical device application server (MDS) with: One 64-bit processor designed or certified for Microsoft® Windows Server® 2008 R2 or Windows Server® 2012 16 GB of RAM 120 GB+ of available disk space		Microsoft® Windows Server® 2008 R2/2012 Microsoft® .NET Framework v4.5
	Separate PharmGuard® Interoperability Platform server software with: Two 64-bit processors designed or certified for Microsoft® Windows Server® 2008 R2 or Windows Server® 2012 32 GB of RAM 450 GB+ of available disk space		Microsoft® Windows Server® 2008 R2/2012

ASSESSING RISK

- Member of NH-ISAC and Homeland Security Information Network
- We adhere to both necessary FDA recommended references for conducting cyber risk assessments (CVSS version 3.0 and NIST 800-30)
- Assisting the NCCoE with wireless medical device cybersecurity standards

DEDICATED TO PUMP UPTIME

- Supports Continuous Quality Improvement (CQI) with near real-time visibility into patient data
- Capture event histories—Data available for proactive, evidence-based infusion management decisions
- Diagnostic tools that make service simpler for all PharmGuard® software-driven pumps

40+ YEARS OF SAFE DRUG DELIVERY

- Our Medfusion® pump has long been known for delivering a high standard of safety for the most fragile and challenging patients. We've taken what we've learned and designed the same careful excellence into every detail of our PharmGuard® software
- Alarm management software designed to decrease alarm fatigue and improves response time for critical alerts

For more information visit our website at www.smiths-medical.com

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