

Samsung SDS EHR Ver.2.2

Technical Specification Material

Technical Specifications

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Main Features

Samsung SDS incorporates features to satisfy the requirements of each type of service provider. Please refer to the table below for Samsung SDS EHR features by policies:

Sales Item	Category	Features
EHR	Administration	Revenue Cycle Management
		Patient Administration
		Claim
		Quality Improvement
		Hospital Administration
	Patient Care	Order Entry
		Nursing
		Operation/Anesthesia
		Medical Record
		Health Information Management
	Ancillary	Pharmacy
		Laboratory
		Radiology
		Nutrition
		Referral Management
		Infection Control
		Rehabilitation
		Oncology
		Healthcare Checkup(Comprehensive)

Samsung SDS EHR offers additional features as described below:

Key Features

Obtain a Holistic View of Patient Health across All Settings

Quick access to patient information-laboratory results, MAR (Medication Administration Record), nutrition, and patient history-enables physicians to obtain a complete picture of the patient's condition and reduce incidences of medication errors and adverse drug events.

While physicians do clinical documentation, Samsung SDS EHR sources images and lab results from other hospital systems, thereby offering the users with effective time management experience. It also tracks high-risk patients and notifies clinicians of their conditions on time for effective care.

Empower Physicians with Evidence-based Order Entry

CPOE (Computerized Physician Order Entry) is designed around the physician's workflow for ease of use and adaptability. Physicians can solely focus on providing care to patients with the maximum support from our intuitive user interface. With just a few clicks, the user interface provides patient information such as prescription and allergies sourced from different departments.

Streamline Physician Workflow by Using Intuitive Physician Documentation

Samsung SDS EHR clinical documentation creates and manages a broad range of medical documents such as Admission Notes and Patient Progress Notes, using standard, clinically approved templates. It also supports the usage of standard terminology such as ICD-10 and SNOMED CT codes, which enables effective data use and system interoperability. The ability to attach PACS (Picture Archiving and Communication System) images while documenting and reviewing patient information provides physicians with a complete picture of patient's condition, and allows them to deliver optimum care.

Enhance Patient Safety with Closed Loop Medication Process

Samsung SDS EHR offers proactive prevention of medication errors by tracking all the medication-related processes from placing orders to dispensing and administering medications in the hospital. It supports ADR (Adverse Drug Reaction) which manages adverse drug effects of patients and links them with CPOE to enable physicians to take appropriate decisions. TDM (Therapeutic Drug Monitoring) ensures drug's safety and efficacy by monitoring serum levels of drug concentrations.

Manage Care Records by Using Nursing Module

Samsung SDS EHR facilitates recording of patient care by using specialized charts such as flow sheets and nursing plans. Unplanned activities or other additional information can be captured using nursing notes which are linked with nursing plans.

Medications administered by nurses are recorded on eMAR (Electronic Medication Administration Record) and shared with physicians in real-time.

Known Issues

This is the second release of Samsung SDS EHR. No issues were found or resolved in this release.

Requirement

1. Server Specifications (based on 1,000 Users, do not consider HA)

Category		Recommended Specifications
WEB	EHR	[Hardware] CPU : 4 Cores, MEM: 16G, HDD: 300G * 4ea, OS : RHEL 6.3 64bit or CentOS 6.3 64bit [Software] Java : 1.7, Webserver : Apache 2.2
WAS	EHR	[Hardware] CPU : 8 Cores, MEM: 24G, HDD: 300G * 4ea, OS : RHEL 6.3 64bit or CentOS 6.3 64bit [Software] Java : 1.7, WAS : Tomcat 7.0
DB	EHR	[Hardware] CPU : 20 Cores, MEM: 32G, HDD: 300G * 4ea, OS : RHEL 6.3 64bit or CentOS 6.3 64bit [Software] Oracle Enterprise 11g
Storage	Storage	Usable 45 TB
	San Switch	2EA

* Discussion required for use of other hardware/OS/SW specification not defined here

2. Supported Devices

Client PC and Mobile device recommended specification for EHR solution are as below.

Client	Recommended Specifications
Client PC	- OS Windows 7 (32bit / 64bit) - CPU : 2.2GHz - RAM MEM : 4GB - Graphic Display Resolution : 1920*1080, 1280*1024 - HDD/SSD DISK Capacity : 1GB

3. 3rd parties license

1) DBMS

- Licensor Company : Oracle
- Brand/Product Name : Oracle Enterprise 11g