



SiMARS

BIMA Line 

SISTEM INFORMASI & MANAJEMEN RUMAH SAKIT

ENTERPRISE PACKAGE

2024



SISTEM INFORMASI & MANAJEMEN RUMAH SAKIT

Pengembangan dari versi sebelumnya yang telah disempurnakan diupdate menyesuaikan kebutuhan Rumah Sakit saat ini sesuai dengan standar **Akreditasi** yang diberlakukan.



PENDAHULUAN

SIMRS BIMA LINE adalah software sistem informasi rumah sakit berbasis web yang menjadi solusi ideal dalam menyelesaikan permasalahan administrasi rumah sakit Rumah Sakit dan Klinik. Semua fiturnya terintegrasi, mulai dari aktifitas front office seperti antrian poli, sampai dengan pelayanan back office baik klinis, non klinis, keuangan, dan akuntansi.

Aplikasi SIMRS ini dirancang dengan sebaik mungkin dan selengkap mungkin, sehingga bisa menyelaraskan banyak kepentingan baik dari shareholder maupun stakeholder.

TUJUAN



- Mengelola data Rumah Sakit sehingga menjadi informasi yang lebih efektif dan efisien
- Mengurangi kesalahan dalam proses pengolahan data dan penyajian informasi
- Memudahkan dalam pengaksesan data, Mengembangkan dan memperbaiki sistem yang telah ada.

PRINSIP DASAR



- Merupakan kebutuhan dasar untuk pengumpulan, pengolahan, dan penyajian data Rumah Sakit
- Dititik beratkan pada pemantauan pengendalian dan evaluasi kegiatan Rumah Sakit
- Pengembangan SDM dan SIMRS dilakukan secara bertahap dan terus menerus

STANDAR

Standar Sistem Informasi Standar SIMRS mengacu pada Peraturan Menteri Kesehatan No 82 Tahun 2013 tentang penyelenggaraan Sistem Informasi Rumah Sakit maka dengan itu SIMRS MMI terus meningkatkan integrasi layanan dengan aplikasi lainnya antara lain: **SEP BPJS, Antrol, INA-CBG, Satu Sehat, Sistrute, Siranap, Sirsonline**

SIMRS BIMA LINE dilengkapi dengan paket **Cloud Server** dengan Kapasitas yang cukup besar untuk menangani proses bisnis yang berlangsung di Rumah Sakit

BIG DATABASE



Penggunaan PostGreSQL Database, mampu menampung data besar

MULTI DEVICE



Dapat digunakan diberbagai perangkat, Mobile dan Tablet

OFFLINE/ONLINE SUPPORT



Pendampingan untuk implementasi yang didukung oleh Team Support SIMRS

USER FRIENDLY



Interface dikembangkan sesederhana mungkin agar mudah digunakan

OFFLINE/ONLINE ACCESS



Aplikasi bisa diakses offline maupun online.

KEAMANAN TANGGUH



Dilengkapi dengan Script Security yang cukup tangguh

FITUR UNGGULAN

E-Klaim

Integrasi BPJS

HL7-FHIR

Remunerasi

Elektronik RM

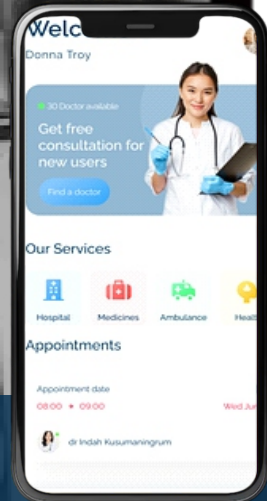
Telemedicine & Online Registration

SiMRS
BIMA Line⁺



TEKNOLOGI yang DIGUNAKAN

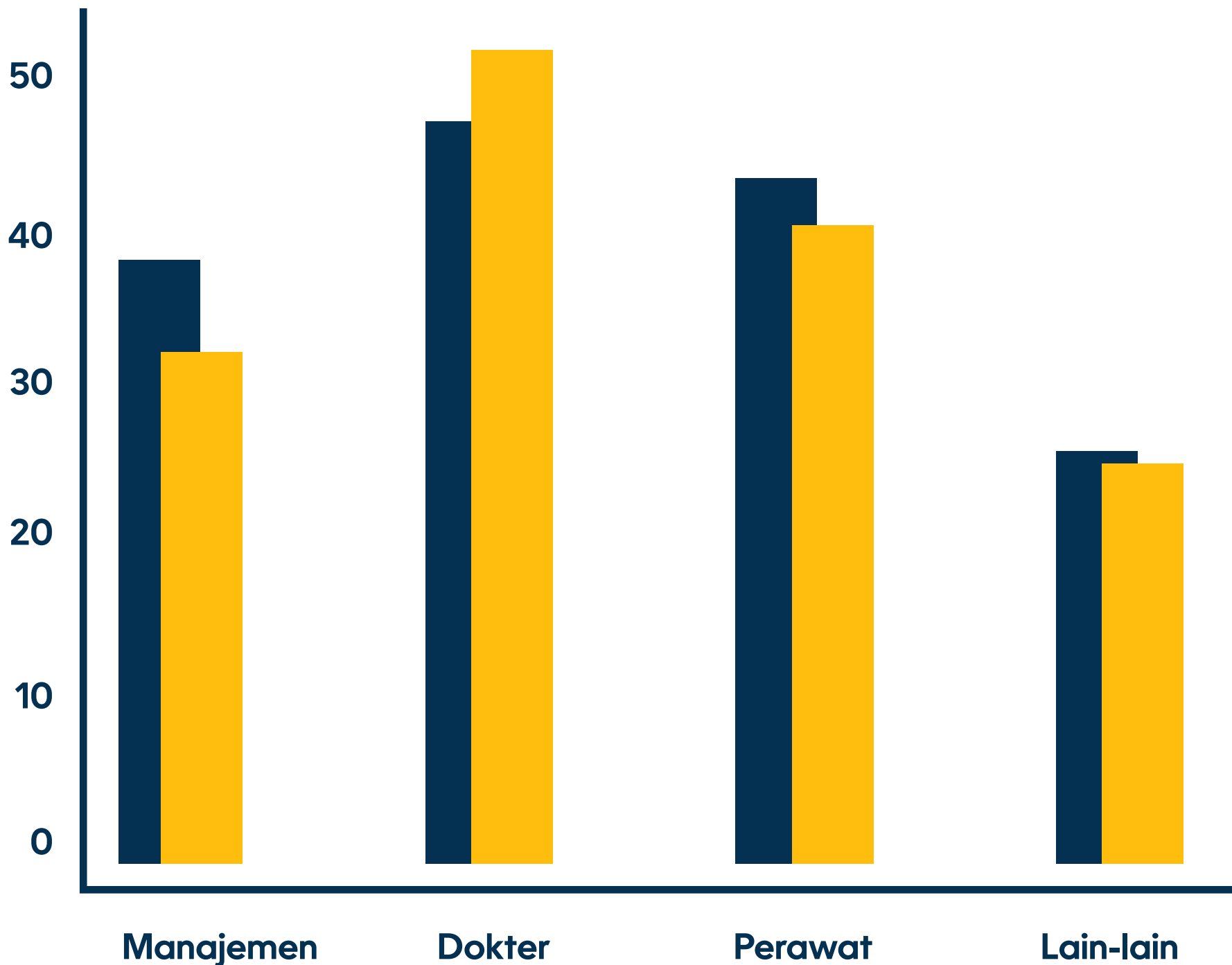




Telemedicine & Online Registration

Dilengkapi dengan fitur telemedicine untuk konsultasi online via video conference dan registrasi poli secara online tanpa harus mengantri di loket pendaftaran.

Pembagian proporsi tenaga medis sesuai dengan ketentuan rumah sakit maupun pemerintah daerah



REMUNERASI TENAGA MEDIS



LAYANAN POLI



FARMASI



Pharmacy





RSU -----

Farmasi Rawat Jalan

KONFIRMASI RESEP DOKTER

Input No RM anda

 Cari





PSII Angin Dibuat

RESEP DOKTER

No. RM : 000005
Nama Pasien : ANANG NIDABULLAH
Golongan Pasien : UMUM
Poli : UMUM
DPJP : dr. M.DJOKO S TARDAN, Sp.M

TANGGAL / JAM RESEP: 29 Maret 2024 [21:07]

Obat / BHP	Aturan Pemakaian	Dosis Pemakaian	Keterangan
PENTABIO	3x1	Sedang	-----
ANTRAPOL	3X1	Sedang	-----

Anda yakin mengkonfirmasi?

YA

TIDAK

5

ANTRIAN FARMASI



RS -----

Panggilan Antrian Apotek

Selasa
15.00 WIB

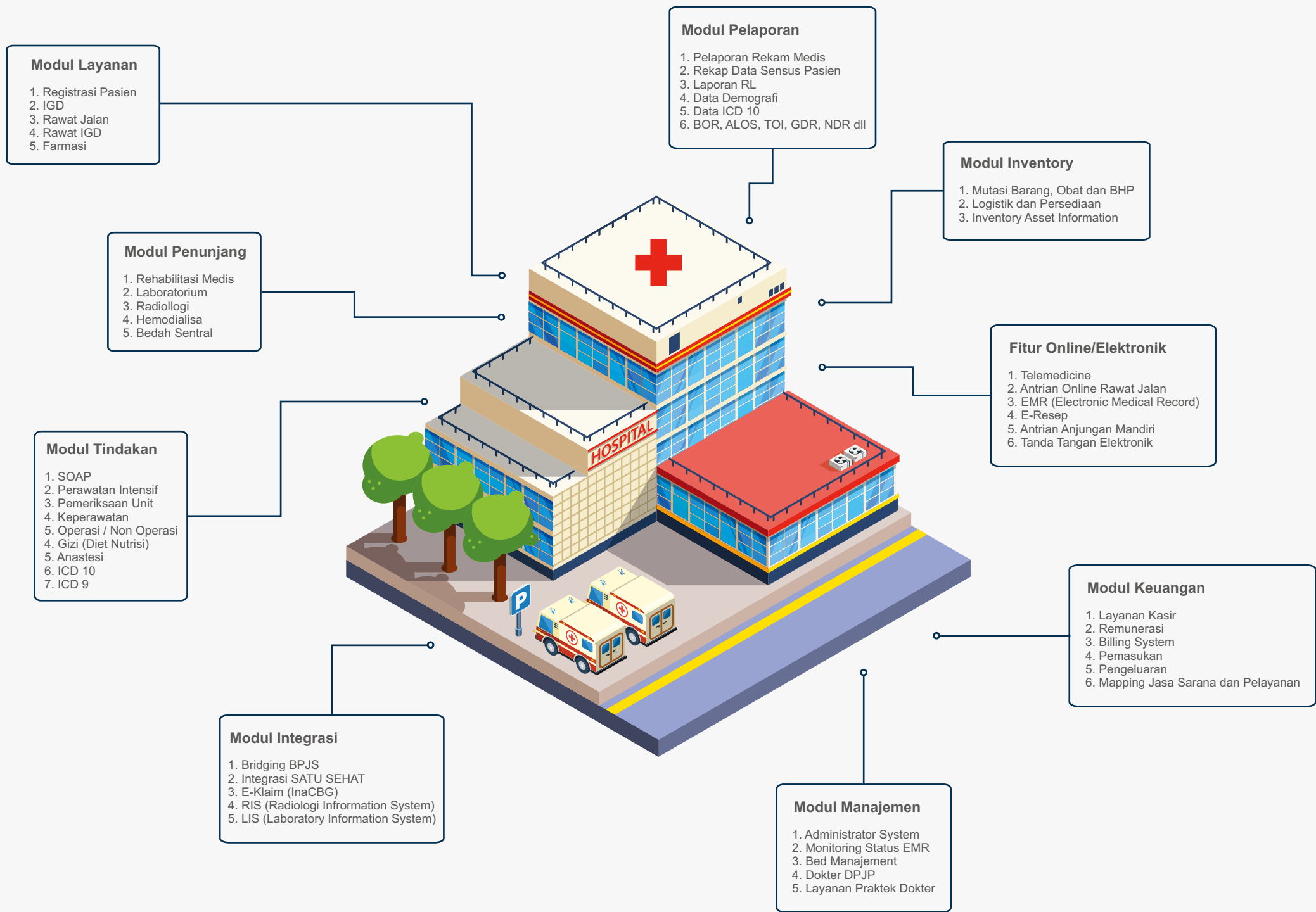
Daftar Antrian Pasien		Sisa Antrian: 10	
A001	Natasya Wilona	Rm9023452	12.09
A002	Antoni Hoptkin	Rm9023453	12.14
A003	Rumanof Sasa	Rm9023454	12.20
A004	Joko Wijoyo	Rm9023455	12.22
A005	Nandang Entis	Rm9023456	12.40
A006	Siska Nur Fadilah	Rm9023457	13.15
A007	Natasya Wilona	Rm9023452	12.09
A008	Antoni Hoptkin	Rm9023453	12.14
A009	Rumanof Sasa	Rm9023454	12.20
A010	Joko Wijoyo	Rm9023455	12.22
A011	Nandang Entis	Rm9023456	12.40
A012	Siska Nur Fadilah	Rm9023457	13.15
A013	Rumanof Sasa	Rm9023454	12.20
A014	Joko Wijoyo	Rm9023455	12.22
A015	Nandang Entis	Rm9023456	12.40



A001

Natasya Wilona

FITUR UMUMSIMRS



PACS TOOL ANNOTATE

Support Modality (Multi Modalities)

CR, DR/DX, CT Scan, MRI, USG, OT, XA, RF, MG, IO, PX, GM, SR Doc, OP, etc.

**Modality must support DICOM and HL7*

Standar Tool

Zoom in/out
Window level
Window presets for CT and MR
ROI Window level
Invert Tool (+/- image)
Pan
Magnify Zoom
Rotate left and right
Flip Horizontal/Vertical

Measurement Tool

Length measurement
Bidirectional measurement
Arrow annotation
Angle measurement
Foot flat angle for stitching view
Probe value
Ellipse area volume
Rectangle area volume
Freehand area volume
Text marker

Viewer Tool

Reference tool
Play cine
Stack scroll image
Reset image
Clear image
Download image
Information shortcut key
Calibration tool
Dicom tag data view

Image Layout Viewer

Layout 1x1	Layout 3x1
Layout 1x2	Layout 3x2
Layout 1x3	Layout 3x3
Layout 1x4	Layout 3x4
Layout 2x1	Layout 4x1
Layout 2x2	Layout 4x2
Layout 2x3	Layout 4x3
Layout 2x4	Layout 4x4

2D Multi Planar Reconstruction (MPR)

Cross hair - Segmentation tool
Window level tool
Slab thickness value
Reset image position
Mode: MIP, MinIP
and AvgIP

3D - Hanging Protocol

For CT and MR modality with 3D window presets and segmentation 4 layout auto with Axial, Coronal and Sagittal view and XYZ rotate viewer.

AI Screening untuk pemeriksaan Thorax

REQUIREMENT RUMAH SAKIT

Mempunyai jaringan LAN (CAT6) FO
Tersedia koneksi internet yang stabil dan IP Public
Modalitas Radiologi yang akan diintegrasikan harus
Open serta mempunyai lisensi DICOM worklist dan
DICOM send

Paket PACS tidak termasuk infrastruktur jaringan
PACS tidak termasuk migrasi dari data sebelumnya.



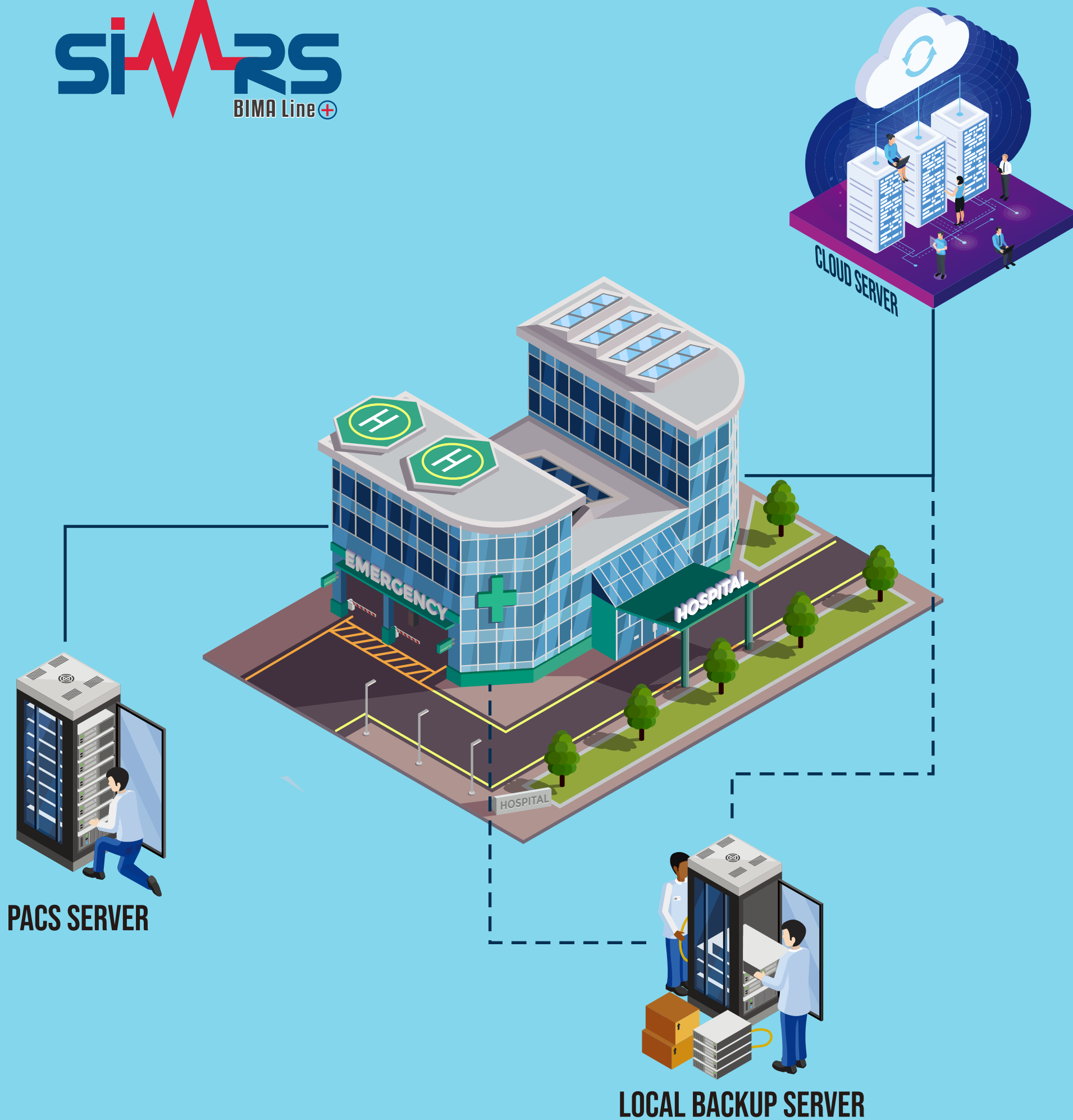
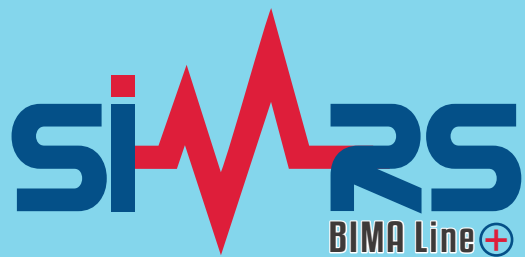
LIS

LABORATORIUM INFORMATION SYSTEM

Hasil Cetak Lab bisa berupa PDF,
DOC dan EXCEL

Support berbagai merek alat Lab seperti:
Sysmex XN Series, Sysmex CA Series, MINDRAY BS Series,
Mindray BC Series, ERBA, HEMOLYZER Pro, Mini Vidas,
Microlab, Siemens, Autolumo A Series, Nova Phox AGD,
BioSystem BA400, BioSystem A25.

ALUR SISTEM





UPS SPECIFICATION

6KVA

INPUT	
Voltage	160 – 280 Vac
Frequency	45-65 Hz
Phase / Wire	Single, Line + Neutral + Ground
Power Factor	Up to 0.99 at 100% Linear Load
Current THD	< 5% at 100% Linear Load
OUTPUT	
Voltage	200/220/230/240 Vac Selectable [208/120 Vac Optional]
Voltage Adjustment	Nominal +1%, +2%, +3%, -1%, -2% or -3% adjustable
Voltage Regulation	+/- 2%
Capacity	6000VA/4200W
Rated Power Factor	0.7 lagging
Wave From/Distortion	Sine Wave, Voltage THD <3% [no load to full load]
Frequency Stability	+/- 0.2% On Inverter Free-Running Mode
Frequency Regulation	+/-1Hz, +/-3Hz [programmable by user]
Transfer Time	0msec
Crest Factor	3:1 acceptable
Efficiency [AC to AC, Normal]	Up to 91%
Efficiency [AC to AC, ECO Mode]	Up to 98%
Autonomy [Built-in Battery]	~15~30 mins depending on Load
DC Start	Yes
BATTERY	
Type	Sealed Lead Acid Maintenance Free 12V/7Ah [Built-in]
Quantity	20 pcs
Voltage	240 Vdc
Recharger Time	4 Hours to 90%
Supplementary charger	Optional 1000w isolated Charger
Display	
Status on LED+LCD	Line Mode, Backup Mode, ECO Mode, Bypass Supply, Battery Low, Battery Bad/Disconnect, Overload, Transferring with Interruption, & UPS Fault
Reading on LCD	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature
Self-Diagnostics	Upon Power-on & Front Panel Setting
PROTECTION	
Overload (with simulated thermal tripping I-T curve)	Inverter Supply: 105%~150% for 160 seconds – 2cycles [40 min/sec] before switching to bypass, Bypass Supply: 105%~200% for 500 seconds ~ 8 cycles before stopping supply load
Short Circuit	Inverter Switch off immediately
Overheat	AC mode : switch off the UPS
Battery Low	Backup mode : switch off the UPS, alarm and switch off
Noise Suppression	Complies with EN50091-2
Spike Suppression	Complies with EN6100-4-5
ALARMS	
Audible and Visual	Line Failure, Battery Low, Transfer to Bypass, System Fault Condition
PHYSICAL	
Dimensions [W x D x H]	290 x 645 x 748 mm
Input & Output connection	Hardwire
External Battery Connection	Plug & Play
Net Weight	86 kgs(standard unit)
ENVIRONMENT	
Operating Temperature	0°C - 40°C
Altitude	0-2000m up to 40°C, 3000m up to 35°C
Humidity	90% RH Maximum, Non-Condensing
Noise	< 50 dB [at 1 meter]
COMPUTER INTERFACE	
Interface Type	Standard RS232 Interface
Communication slots	2nd RS232 with EPO, USB with EPO, RS485 with EPO, Relay contact & EPO, SNMP/WEB Card, etc [Optional]
SAFETY CONFORMANCE	
Quality Assurance	ISO9001 Certified Company
Safety Standard	EN50091-1, UL1778
EMC Standard	EN50091-2, EN61000-3-2, EN61000-3-3, FCC Class A
Marks	CE, UL, cUL

UPS for SIMRS SERVER, PACS SERVER

3KVA

MODEL	ITEM	RS 1000	RS 2000	RS 3000
CAPACITY	VA/W	1000VA/900W	2000VA/1800W	3000VA/2700W
INPUT	Voltage Range	110Vac/140Vac/160Vac-300Vac (Based on load percentage 0%~25% / 25%~50% / 50%~100%)		
	Frequency Range	45Hz ~ 65Hz		
	Phase	Single phase with ground		
	Power Factor	≥ 0.99 (with full linear load)		
OUTPUT	Voltage	230V, adjustable to 200/208/220/230/240		
	Voltage Regulation	≤ ± 1% until low battery warning		
	Frequency (Synchronized Range)	3Hz or 1Hz (selectable)		
	Frequency (Battery mode)	50Hz/60Hz ± 0.1% unless synchronized to line		
	Current Crest Ratio	3:1 (acceptable)		
	Harmonic Distortion	< 3% (at full load) ; < 6% (at full non-linear load)		
OVERLOAD CAPACITY	Output Waveform	Pure sine wave		
	Line mode / Battery mode	<105% continuous, >106%~120% for 30 seconds transfer to bypass, >121%~150% for 10 seconds transfer to bypass, >150% for immediately transfer to bypass, Buzzer continuously alarms.		
	Bypass mode	<105% continuous, >106%~120% for 250 seconds shuts down, >121%~130% for 125 seconds shuts down, >131%~135% for 50 seconds shuts down, >136%~145% for 20 seconds shuts down, >146%~187% for 5~0.32 seconds shut down, >188% for 0.16 seconds shuts down, Buzzer continuously alarm		
OVERALL EFFICIENCY		≥ 88%		
INTERNAL BATTERY	Number of batteries	2	4	6
	Battery type	12V/7.2AH (Sealed, non-spillage, maintenance-free, lead acid)		
	Rated Battery Voltage	24Vdc	48Vdc	72Vdc
	Backup time (half load/full load)	10 ~ 30 minutes depending on loads		
	Recharge time (to 80%)	≤ 5 hours		
	Floating Charging Voltage	27.3Vdc ± 0.5V	54.6Vdc ± 0.5V	82.0Vdc ± 0.5V
TRANSFER TIME	Bulk Charging Voltage	30.0Vdc ± 0.5V	60.0Vdc ± 0.5V	90.0Vdc ± 0.5V
	AC to DC	0ms		
DC START		Yes		
SELF DIAGNOSTICS		By button of the panel or Software Control		
FRONT PANEL	Standard LED	Load Level/Battery Level/ Battery Mode/ Normal Mode/ Bypass Mode/ Self-Test/ Weak/Bad Battery/ Site Wiring Fault/ Fault/ Overload		
	Optional LED	Programmable Outlet 1 / Programmable Outlet 2		
	Optional LCD	Readings: Load Percentage (%), Battery Voltage (V), Input Voltage, Input, Frequency, Output Voltage, Output Frequency, Output Current Icon Indicators: Eco Mode, Utility Mode, Battery Mode, Service Mode, UPS Fault, Overload, UPS Status, UPS Outlets 1&2		
AUDIBLE ALARM	Button	ON/Alarm Silence Button / OFF Button / Test/Level Button		
	Battery Mode	Sounding once every 1.5 seconds		
	Low Battery	Sounding once every 0.2 seconds		
	Overload	Sounding once every 3 seconds		
	Normal alarm	Sounding once every 3 seconds		
PROTECTION	Fault	Continuously Sounding		
	Short Circuit	Bypass mode: FUSE, Normal Mode: Output Breaker/Electronic Circuit, Battery Mode: Output Breaker/Electronic circuit		
	Battery	Advance Battery Discharge Management		
	EPO	UPS shuts down immediately		
PHYSICAL	Over Temperature	Normal mode: Transfer to Bypass Mode, Battery Mode: UPS shuts down immediately		
	Dimensions (H × W × D in mm)	220 × 144 × 360	322 × 152 × 438	322 × 190 × 438
	Weight (kg)	12	22	27
	Outlet	(3) 10A, IEC 320-C13	(6) 10A, IEC 320-C13	(6) 10A, IEC 320-C13
ENVIRONMENT	Operation Temperature	0-40°C		
	Noise Level	<50dBA		
	Relative Humidity	0 to 90% (Without condensation)		
INTERFACE	Standards	RS232 port		
	Optional	Dry contact, 2nd RS232, USB, SNMP/Web Card		
	Compatible platforms	Microsoft Window series, Linux		
STANDARDS AND CERTIFICATIONS	Safety	IEC/EN62040-1-1		
	Performance	IEC/EN62040-3		
	EMC	IEC/EN62040-2 class A, FCC Part 15 Subpart B class A, IEC/EN55011, CISPR 11, IEC 61000-4-2/-3/-4/-5, IEC 61000-2-2, IEC 61000-3-2/-3		
	Markings	CE, FCC		



HARDWARESPECIFICATION

SIMRS SERVER

(Xeon E-2324G, 8GB, 2x1TB) Intel Xeon E-2324G 4C 65W 3.1GHz Processor, 8GB TruDDR4 3200 MHz (1Rx8; 1.2V) ECC UDIMM, 2x ThinkSystem 3.5 1TB 7.2K SATA 6Gb Hot Swap 512n HDD, 2 Port Gigabit Ethernet 1000BASE-T ports (RJ-45), Include Railkit, Power supply 300W fixed SKU 3339560524

PACS SERVER

Processor Onboard	: Intel Xeon Silver 4214R 2.40Ghz (Up To 3.20Ghz) 20-Cores, 13.75MB Cache Memori Standar: 16GB RDIMM, 3200MT/s, Dual Rank
Hard Disk	: 2TB 7.2K RPM NLSAS 12Gbps 512n 3.5in Hot-Plug Hard Drive RAID: C7, Unconfigured RAID for HDDs or SSDs (Mixed Drive Types Allowed) Graphics: Intel® HD Graphics
Embedded / At-the-Server	: iDRAC9
Internal Controllers	: PERC H330, H730P, H740P, HBA330
Eksternal Controllers	: H840, 12 Gbps SAS HBA
Software RAID	: S140

PACS WORKSTATION

Graphic Card	: GIGABYTE GeForce RTX™ 3060 Ti GAMING OC
Memory	: CORSAIR VENGEANCE PRO RGB 32GB DDR4-3600 Dual Channel
Processor	: RYZEN 7 5800X TRAY
Motherboard	: GIGABYTE X570 AORUS ELITE
Cooling	: Cooler Master MasterLiquid ML240 Illusion Storage (Primary): KLEVV SSD CRAS C710 512GB M.2 2280 NVMe PCIe Gen3 x4 - K512GM2SP0-C71 - R2050MB/s W1650MB/s
Storage (Secondary)	: WDC 2TB SATA3 256MB - Blue - WD20EZAZ - Garansi 2 Th
Power Supply	: Seasonic Focus Gold GX-750 Full Modular
FAN	: Cooler Master Sickleflow 120 ARGB 3in1 Case Jonsbo C3 Plus Silver

ENTERPRISE PACKAGE

01

SIMRS



LIS



PACS

02

2 UNIT SERVER



RACK SERVER



2 UNIT UPS

03

PACS WORKSATION



3 PACS MONITOR



2 TABLET MONITOR

04

MAINTENANCE

②

YEAR





krisimatech

CONTACT US



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Jakarta 13120, Indonesia



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<http://kharisma-utama.id>



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