

CLINICAL AUTOMATION & HEALTHTECH

Healthcare Solutions

Clinical Automation & Healthtech

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1. Executive Briefing & Problem Framing

THE ENTERPRISE CHALLENGE

- Fragmented patient workflows inflate administrative overhead.
- Legacy clinic systems impede real time data exchange.
- Security gaps threaten HIPAA compliance and patient trust.

THE IMA ARCHITECTURAL SOLUTION

- Unified ERP EHR CRM architecture eliminates data silos and manual copy copying.
- Native AI triage and remote photoplethysmography streamline intake and wellness monitoring.
- End to end encryption and role based access enforce strict HIPAA compliance.

Supported & Verified Performance Metrics

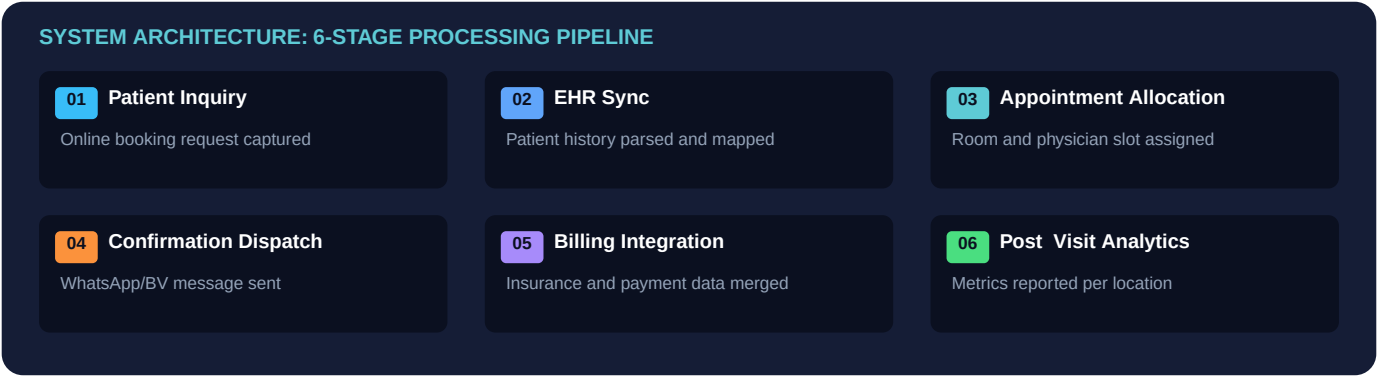
100% Sync Accuracy Full clinical record match	6 10 Wks Migration Time End to end rollout	3 Awards Won Industry recognitions	0 Manual Copy No data duplication	100% Compliance HIPAA conformant
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PROCUREMENT & EVALUATION SUMMARY

Healthcare Solutions offers an enterprise grade platform that aligns with procurement standards—compliant, secure, and scalable. It delivers measurable efficiency gains while safeguarding patient data.

2. Healthcare Automation Pipeline

From patient inquiry to automated follow up, every touchpoint is scheduled, validated, and stored in a unified platform.



Core Capabilities

Integrated Patient Scheduling

Deploys online booking directly to physician rotation calendars, slashing call center traffic and elevating physician utilization.

Audiology ERP Module

Tracks hearing aid inventory, diagnostic data, and warranty periods across multiple locations, automating procurement and service workflows.

Remote Photoplethysmography (rPPG)

Captures blood flow and pulse metrics via standard video, enabling non-invasive wellness assessments and early intervention.

HIPAA Conformant Security

Imposes end-to-end encryption, role-based access, and secure audit trails, ensuring patient data remains confidential and compliant.

Comparison to Conventional Clinic Software

Capability / Metric	Conventional Approach	Healthcare Solutions Architecture
System Architecture	Isolated databases, manual copy-paste	Unified ERP, EHR integration, CRM pipelines
AI Capabilities	No AI, simple contact form	Native patient intake triage, automated agents
Specialized ERP Module	Generic fields, costly custom code	Built-in Audiology inventory, diagnostic syncs
Compliance & Security	Basic checks, no active threat tracking	Private cloud hosting, bank-grade encryption
Engagement Automation	Manual SMS, outdated email chains	WhatsApp, IVR, email triggers

3. Integration Options

Flexible deployment that connects seamlessly with existing diagnostics, communication, and fulfillment systems.

Developer Integration Architecture

FLEXIBLE INTEGRATION METHODS

1. API Bridge

Secure REST endpoints expose patient, inventory, and scheduling data to third party services.

2. Webhooks

Event driven notifications keep external systems in sync without polling.

3. WhatsApp Business

Automated message flows deliver confirmations, reminders, and prescriptions directly to patients.

API INTEGRATION EXAMPLE

```
import { HealthcareSDK } from 'healthcare-solutions-sdk';
const sdk = new HealthcareSDK({ apiKey: 'YOUR_KEY' });
async function bookAppointment(patientId) {
  const booking = await sdk.schedule('Dermatology', {
    patientId,
    physician: 'Dr. Malhotra',
    slot: '2024-11-08T11:30:00Z'
  });
  console.log('Appointment ID:', booking.id);
}
```

Deployment Topology & Hosting Models

Private Cloud

Bank Grade Encryption

Hosted in a secure data center, fully isolated from public networks.

Hybrid Cloud

Scalable Flexibility

Combines on premise control with cloud elasticity for peak loads.

On Premise

Full Control

Software lives on client hardware, ideal for strict regulatory regimes.

Containerized Kubernetes

DevOps Ready

Microservices architecture enables rapid rollout and automated CI/CD.

Target Industries

Healthcare Networks

Unifies multi facility patient journeys and analytics.

Telehealth Providers

Adds remote pulse monitoring via rPPG to virtual visits.

Audiology Clinics

Automates hearing aid inventory and diagnostic workflows.

Multi Location Retail Clinics

Centralizes booking, billing, and staffing across sites.

4. Security Pillars

Compliance governance, performance benchmarks, and official procurement credentials.

Security Pillars

HIPAA-Conformant Security
Encrypted Storage
Data is encrypted at rest and in transit, with strict audit logging.

Role Based Access
Granular Permissions
Access is limited to job function, preventing unauthorized data exposure.

Secure Cloud Hosting
Private Data Center
All servers reside in a dedicated, physically secure environment.

Threat Detection
Continuous Monitoring
Active threat analytics and real time alerts shield against breaches.

Validation & Benchmarking

Award Winning Quality and Performance

- Global Digital Health Award for Remote Photoplethysmography integration.
- Three time World Sleep Day Winner for appointment campaign automation.
- Scalability testing validated multi billion USD acquisition readiness.
- 100% EHR sync accuracy reported in post migration audit.

Why Partner with IMA AppWeb?

PROVEN ENTERPRISE EXCELLENCE

- Global Digital Health Award Winner
- World Sleep Day Automation Champion
- Award Winning Computer Vision Platform
- Proven Multi Billion Acquisition Readiness

ENTERPRISE VENDOR PROFILE

Legal Entity: IMAAPPWEB PRIVATE LIMITED

Headquarters: Green Park, New Delhi - 110016, India

Live Verification: <https://imaappweb.com/>

Procurement Contact: info@ima-appweb.com | +91-9871-192-979

Engagement Models: Fixed RFP / SOW | Tiered API SLA | Dedicated

Ready to Modernize Your Care Delivery?

Discover how Healthcare Solutions can streamline schedules, secure records, and deliver data driven insights

Schedule a Demo