Bokono RDC
Votre santé, notre priorité

NOVEMBER 2026



OFFICIAL TECHNICAL SHEET

BOKONO RDC

Integrated digital health platform — architecture, modules, security, compliance.

Architecture | Modules | Security | Compliance

BOKONO RDC
Your health, our priority

ESPAGNORA SARLU
A project led by Espagnora
Version 1.2 (test version) — November 2026

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1 Project identification

Item	Detail
Name	BOKONO RDC — "Your health, our priority"
Nature	Integrated digital platform for health and medical services
Lead company	ESPAGNORA SARLU, Kinshasa (RCCM CD/KNG/RCCM/23-B-00505 · ID NAT 01-F4300-N28020R · NIF A2305494Y)
Managing Director	KAJA LUKALU Joël
Country	Democratic Republic of the Congo
Fields	Digital health, telemedicine, artificial intelligence, electronic medical record, coordination of health services
Status	Test version (app 0.17.0) — November 2026
Platforms	Android app; web administration console; iPhone (iOS) app planned
Languages	French, English
Related documents	Presentation · Terms of use · Manuals

Feature status. Each item in this sheet carries one of the following labels:

Code	Meaning
A — Operational	Works in the current test version
B — In development	Built, being activated or technically validated
C — Planned	Scheduled, not yet developed
D — Subject to validation	Depends on regulatory, institutional or medical committee validation

2 Technical summary

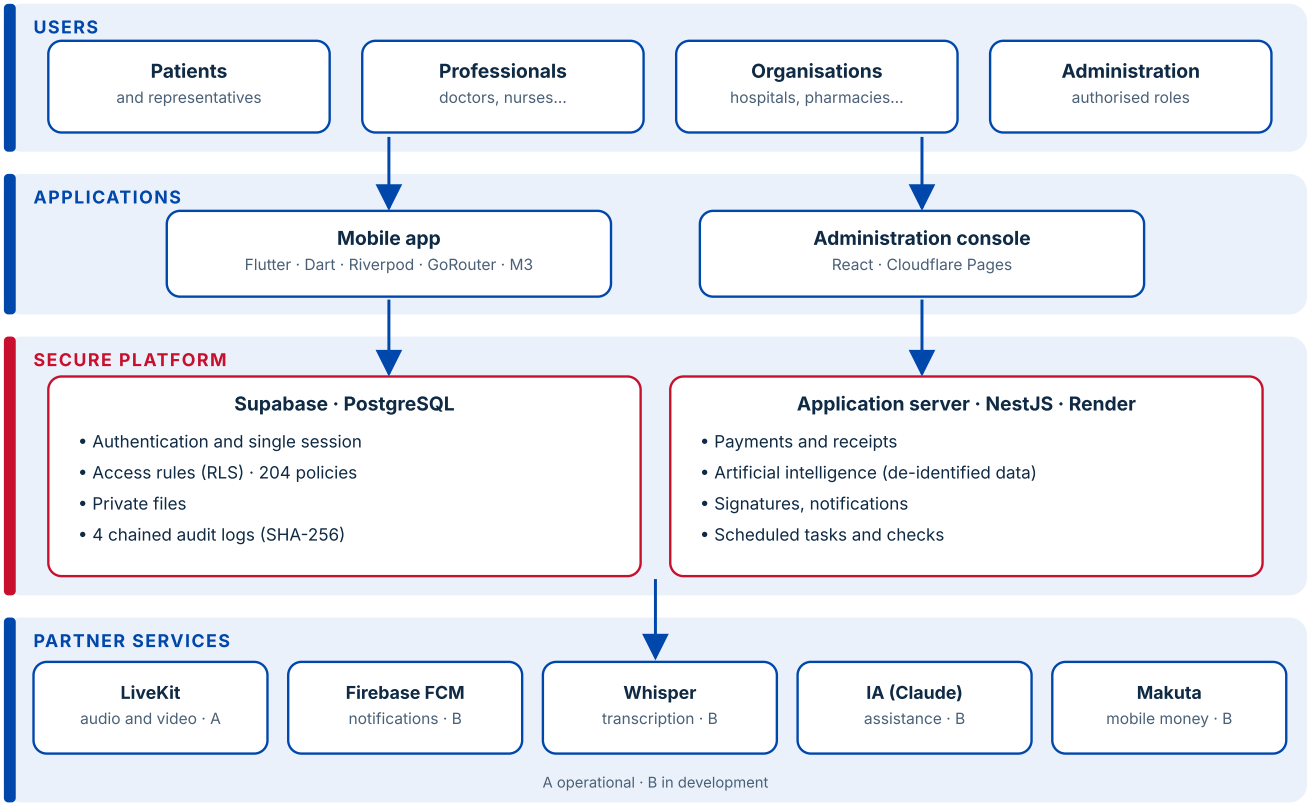
BOKONO RDC brings together ten user profiles in one platform: patients, doctors, nurses, midwives, paramedics, health facilities (11 types), pharmacies, laboratories and imaging centres, ambulance services, insurers and mutuals, plus a general administration kept separate from medical access.

The architecture is hybrid: a PostgreSQL database (Supabase) holds the data, authentication, files and access rules; an application server handles payments, artificial intelligence, signatures, notifications and scheduled tasks. Critical rules (record access, single session, amounts, quotas) are enforced by the database itself, not only by the app's display.

Benchmark (5 November 2026)	Value
Database migrations	124
Tables	289
Server functions in the database	More than 1,170
Access policies (Row Level Security)	221
Automated database tests	1,935 passed, 0 failed
Application server tests	67 passed (plus 19 end-to-end tests)
Administration console tests	33 passed
Mobile app tests	60 passed
Mobile app	179 files, about 42,600 lines, 38 modules

3 Functional architecture

The platform is organised in four layers: users, applications, the secure platform and partner services.



Functional and technological architecture

Layer	Content	Status
Users	Patients, professionals, organisations, authorised administrators	A
Applications	Android mobile app; web administration console	A
Secure platform	Database, authentication, private files, access rules, audit logs; application server	A
Partner services	Audio and video calls, notifications, transcription, artificial intelligence, mobile money payment	A or B depending on the service (see chapter "Technological architecture")

4 Technological architecture

Technology	Role	Status
Flutter and Dart	Mobile app (Android; iOS planned)	A
Riverpod	App state management	A
GoRouter	Navigation between screens	A
Material Design 3	User interface, light and dark themes	A
Supabase	Authentication, file storage, data access	A
PostgreSQL	Relational database, access rules (RLS), server functions, audit	A
Application server (NestJS, TypeScript)	Payments, AI, signatures, notifications, scheduled tasks	A
Render	Hosting of the application server	A
Cloudflare	Hosting of the console and public pages, network protection	A
LiveKit	Audio and video calls	A (test version)
Whisper (WHISPER_HTTP interface)	Speech recognition for consented transcription	B
Firebase Cloud Messaging	Notifications on the phone	B
Anthropic (Claude)	Artificial intelligence assistance, on de-identified data	B
Makuta	Mobile money payment	B — integration built, activation once the merchant account is opened

Frontend. Flutter app structured in business modules (37), with declarative navigation and reactive state management; messages kept on the phone and sent when the network returns. React administration console.

Backend. NestJS server in TypeScript, with a service key never exposed to the mobile app; scheduled tasks (reminders, deadlines, integrity checks).

Database. PostgreSQL: 246 tables, more than 980 server functions, Row Level Security on every sensitive table; 4 separate audit logs, chained by SHA-256 hash.

Authentication. Supabase Auth accounts; single session enforced by the database; second factor (TOTP) for administration and sensitive actions.

API. Database functions called by the app, and the application server API for sensitive operations; token and role checked on every call, rate limiting.

Notifications. In-app notifications (A); push notifications on the phone via Firebase (B). No message content is displayed without the user's consent.

Audio and video communication. LiveKit rooms created by the server, token given only to participants; no recording.

Voice transcription. Sound sent in short chunks to the recognition engine, converted to text then deleted, never stored.

Hosting. Database and files at Supabase; server at Render; console at Cloudflare. Currently a test (staging) environment; separate production environments to be created (B).

Network protection. HTTPS everywhere; strict content security policy on the console; limited allowed origins.

5 Detailed description of modules

Patient app

Element	Detail
Main function	The patient's access point to their whole care pathway
Users	Patients; parents and legal representatives for a child
Features	Medical record, search for professionals, appointments, teleconsultation, messages and calls, prescriptions, results, readings and monitoring plans, pregnancy and cycle tracking, children's records and dashboard (WHO growth, vaccination, declared paediatrician), insurance, emergency (A); Smart Health with the phone's sensors (see "Connected health")
Data processed	Identity, contact details, health data, consents, payments
Interactions	Professionals, facilities, pharmacies, laboratories, ambulances, insurers
Access conditions	Verified account (ID document); USD 1 monthly subscription after validation; emergency always free
Security	Single session, item-by-item sharing, access history, screenshots blocked
Limits	Replaces neither an in-person examination nor emergency services

Doctor space

Element	Detail
Main function	Consult, prescribe and follow patients
Users	Verified general practitioners, specialists, private and emergency doctors
Features	Schedule, follow-up requests (including paediatrician declared by a parent), teleconsultation, case discussions, prescriptions, test requests, reports, monitoring plans and reports, WHO growth charts, vaccination, tasks and alerts, activity report (A)
Data processed	Data of authorising patients only
Interactions	Patients, pharmacies (prescriptions), laboratories (tests), facilities
Access conditions	Identity, professional registration number and diplomas verified; USD 5 monthly subscription
Security	Record access only if member of the care team and authorised; second factor for sensitive actions
Limits	Legal electronic signature of prescriptions subject to validation (D)

Nurse space

Element	Detail
Main function	Patient and care follow-up
Users	Verified nurses
Features	My patients, care and vital signs (including circumferences, pain, Glasgow score, urine output), tasks and alerts, schedule, medical transport, activity report (A)
Access conditions	Verified file; USD 5 monthly subscription
Limits	Acts limited to the profession's competencies

Midwife space

Element	Detail
Main function	Pregnancy follow-up and maternal support
Users	Verified midwives
Features	Women followed, consultations, delivery and newborn birth record, work queue, tasks, medical transport (A)
Access conditions	Verified file; USD 5 monthly subscription
Limits	Clinical alert thresholds to be validated by the medical committee (D)

Hospital and medical centre space

Element	Detail
Main function	Facility management and coordination
Users	11 types of facilities, legal-entity accounts
Features	Departments, beds and stays, staff and trainees, health coverage, transport, reports (A)
Access conditions	Legal documents verified; USD 10 monthly subscription
Security	The organisation's account cannot open records: care is provided from caregivers' accounts

Pharmacy space

Element	Detail
Main function	Dispensing prescriptions and sales

Element	Detail
Features	Reading prescriptions by QR code, traced dispensing and substitution, catalogue, stock, shop, orders (A)
Access conditions	Legal documents verified; USD 5 monthly subscription
Limits	Actual availability confirmed by the pharmacy; controlled medicines follow their own rules

Laboratory space

Element	Detail
Main function	Processing test requests
Features	Receiving requests, sample collection, entry, validation by the biologist, transmission, traced correction (A)
Access conditions	Legal documents verified; USD 10 monthly subscription
Limits	Reference and critical thresholds under the laboratory's responsibility

Ambulance space

Element	Detail
Main function	Emergency interventions and medical transport
Users	Paramedics (USD 5 per month); ambulance services (USD 10 per month)
Features	Interventions, emergency responders, transport requests, vehicles, step-by-step mission tracking (A)
Limits	Does not guarantee the arrival of an ambulance; official emergency numbers and dispatch organisation to be validated (D)

Insurance space

Element	Detail
Main function	Health coverage management
Features	Plans, enrolments, eligibility checks, invoices, agreements, claims, employers (A)
Access conditions	Legal documents verified; second factor mandatory; USD 10 monthly subscription

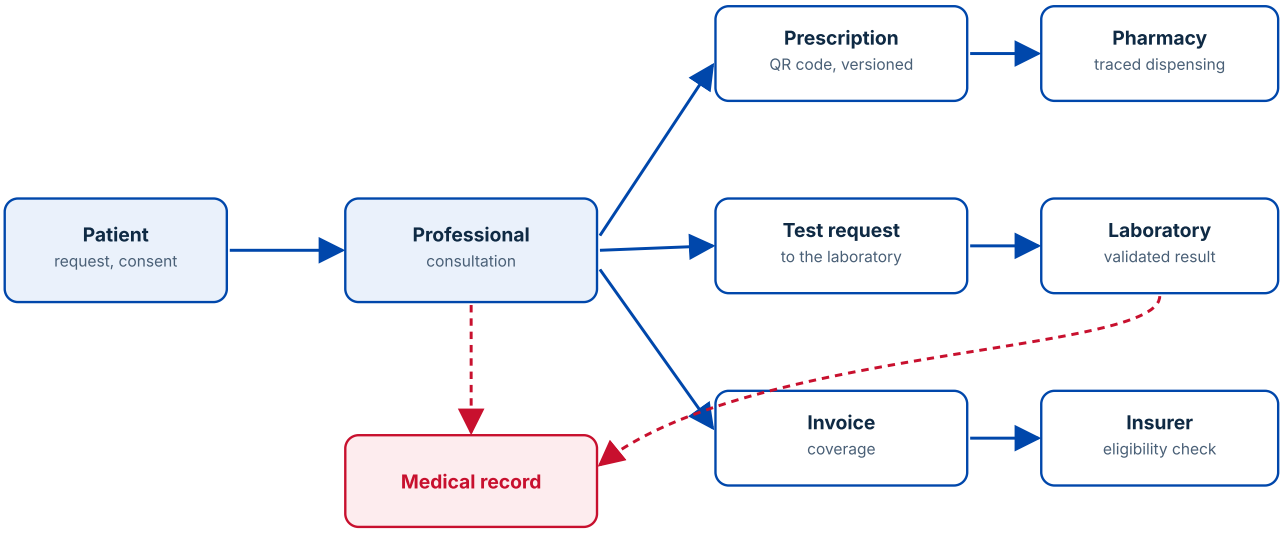
General administration

Element	Detail
Main function	Account verification, security, finance, compliance
Users	Super administrator, system, medical and financial administrators, compliance, audit, support
Features	One-click validation, logs, security, payments, prices, backups, privacy, reference data; "Paediatrics and vaccination" tab: protocols, thresholds and vaccination schedules proposed then validated by a second medical administrator (A)
Security	Second factor mandatory; no administration role can open a medical record; exceptional access with dual approval, traced

Roles and permissions

Profile	Medical record	Prescriptions	Results	Payments	Administration
Patient	Own and their children's	Read	Read	Own	No
Doctor	Authorising patients	Create	Request and read	Own	No
Nurse, midwife	Authorising patients	Read	Read	Own	No
Pharmacy	No (presented prescription only)	Dispense	No	Own	No
Laboratory	No (received request only)	No	Entry and validation	Own	No
Facility	No (via caregivers)	No	No	Own	No
Insurer	No	No	No	Invoices and approvals	No
Administration	No	No	No	Supervision	Depending on role

6 Communication flows



Pathway from consultation to dispensing and reimbursement

Every step is traced: request, patient's consent, consultation, prescription, dispensing, validated result, invoice. Information is sent only to the actors who need it for the requested action.

7 Telemedicine

Function	Description	Status
Audio consultation	LiveKit call between patient and professional	A
Video consultation	LiveKit video conference	A
Medical messaging	Bokono Connect: texts, photos, documents, voice messages, grouped by day	A
Incoming calls	Rings on a locked phone and answers directly, without the app code; code asked again after the call	A
Appointment booking	Doctor chosen by specialty, hospital, area or name; calendar of consultation days and free slots; confirmation by the patient	A
Doctor's answer	Confirmation, reasoned refusal or counter-proposal (another date or mode), patient notified	A

Function	Description	Status
Immediate consultation	Requested by the patient from a reachable doctor; the doctor accepts if available, otherwise it expires after 15 minutes	A
General doctor	Chosen from the first dashboard visit, required before the first consultation (never for an emergency)	A
Sending documents and images	Attachments and medical photos	A
Electronic prescription	Versioned prescription with QR code	A ; legal signature D
Medical report	Written or validated and signed by the professional, added to the record	A
Consultation history	"Consultations" tab of the record	A
Voice transcription	Whisper-type engine (WHISPER_HTTP), dual consent, sealed	B

Audio and video calls are never recorded. A transcription is created only if both the patient (or their representative) and the professional consent.

8 Artificial intelligence

Artificial intelligence never replaces medical diagnosis, prescription or the decision of an authorised professional. The data sent to it are de-identified; patients can switch it off for themselves.

Feature	Status
Patient guidance assistance ("Bokono Assistant")	B
Organising medical information	B
Help drafting reports and activity reports	B
Treatment and appointment reminders	A (scheduled reminders)
Assistance with treatment follow-up and adherence	A
Preliminary analysis of submitted information	C
Assistance with vital signs management	A for detecting missed readings, inconsistent data and low-quality estimates (statistical rules, no AI); C for AI analysis

Feature	Status
Analysis of dermatology images	C (sending the photos is A)
Geolocated health alerts	C

9 Connected health

Device	Parameter	Status
Bluetooth blood pressure monitor	Blood pressure, pulse	B
Connected thermometer	Temperature	B
Oximeter	Oxygen saturation, pulse	B
Heart rate sensor	Heart rate	B
Other compatible devices	Blood glucose, weight, others	B ; catalogue of validated devices: D

Readings are received from the device by Bluetooth Low Energy, or entered by the patient or a professional (A). Each is recorded with its source (medical device, consumer device, entry, phone sensor, import), date and unit, shown in "My readings" and shared with authorised professionals. The phone measures neither blood pressure, nor temperature, nor oxygen saturation: a suitable medical device is required.

Parameters tracked (A): blood pressure, pulse, blood glucose, saturation, temperature, weight, height, calculated BMI, breathing rate, eye pressure, waist circumference, head circumference, mid-upper arm circumference, peak expiratory flow, pain, Glasgow score (professional entry), urine output, sleep duration.

Monitoring and alerts

Function	Status
Monitoring plans set by the doctor (parameters, frequency, times, instructions) and 30-day report	A
Reminders for missed readings: tolerance, capped number of reminders, parents or guardians, escalation to the doctor or the team	A in the app; push notification B
Alert engine by level (Watch, Alert, Critical), by age or corrected age (preterm, newborn, infant, child, adolescent, adult)	A

Function	Status
The clinical thresholds themselves, including paediatric and neonatal	D: no threshold supplied by the platform; protocols and thresholds entered with their source and validated by a second medical administrator

Paediatrics

Function	Status
Child dashboard; paediatrician declared by the parent and accepted by the doctor	A
Birth record (gestational age, measurements, Apgar), corrected age	A
WHO growth charts (2006 standards and 2007 references): z-score and percentile using the WHO method, PDF report	A ; calculation checked against reference results published by WHO
Vaccination schedule: engine (done, due, overdue, catch-up, deferral, contraindication), reminders, PDF record	A
Content of the national vaccination schedule (EPI)	D: to be entered and validated by the medical team; no schedule hard-coded

Smart Health: phone sensors. Results are **estimates** ("phone sensor" category) or assisted entries, saved with the method, algorithm version, signal quality and the phone used. They are neither validated medical measurements nor diagnoses. Sensors are read only during the test, never in the background.

Module	Method	Status
Detection of the phone's sensors	Android inventory (camera, flash, accelerometer...)	A
Pulse by camera (adults)	Photoplethysmography, finger on camera and flash, 30 s, quality index	B: to be validated on real phones against a reference device (D)
Walk, balance, tremor (adults)	Accelerometer, guided tests of 60, 30 and 15 s	B: same validation (D)
Wound dimensions	Photo with a ruler as reference	B: same validation (D)
Assisted breath counting	One tap per breath, 30 or 60 s	A (entry)
Thermometer and site, sleep diary	Guided entry	A
Data analysis and reports	Missing, inconsistent or low-quality readings; PDF report; sending to the care team	A ; statistical thresholds to be validated (D)

Module	Method	Status
Breathing by camera or microphone, sleep from movement, fall detection, AI image analysis	—	C (not enabled)
Health Connect (Android)	On-request, read-only import of data from other apps ("imported, unverified" category)	B: built, to be tested on real phones; the app still installs on older Android versions, the screen checks whether Health Connect is available

10 Electronic medical record

Content	Status
Patient identity	A
Medical history, allergies	A
Consultations and consented transcriptions	A
Prescriptions	A
Laboratory results	A
Reports	A
Medical images (photos)	A
Vital signs	A
Treatment history	A
Medical documents	A

Access control. The record is accessible only to a verified professional who is a member of the care team and authorised. The patient shares item by item, for a chosen period (30 days by default), and can withdraw a share at any time; they can see who viewed what and when. Data from two patients can never be mixed (composite keys, attempts logged).

11 Identity and account integrity

Function	Status
Unique person identity (BKI-...), distinct from the account, the medical record, roles and people in one's care	A
Several roles for one account; children and people in care without a separate account	A
Uniqueness of a verified phone or email, enforced by the database; international number format (+243)	A
Normalised names (LAST NAME in capitals, First name) and comparison ignoring accents and word order	A
Phone verification by SMS code (hashed code, limited attempts and requests)	B: SMS provider to be contracted; optional until it is in service
Duplicate detection: same document (certain), same names and birth date (very probable), close names (possible)	A ; scoring to be validated by tests and human assessment (D)
Signals: several accounts on one installation, repeated requests, number already verified	A (never proof on its own)
Recovery of a former account and controlled merge with double validation (records attached, logs intact, former identifier traced)	A
Several documents for one person (identity card, voter card, passport)	A ; driving licence: administration decision (D)
Automatic reading of documents (OCR) and authenticity check by a provider	C
Face verification, liveness detection, biometric matching	C: framework ready (consent, opaque references, human review), no provider integrated; legal basis and impact assessment (D)

12 Security

Control	Implementation	Status
Authentication	Verified accounts, single session, TOTP second factor	A

Control	Implementation	Status
Role management	24 distinct roles, permissions checked by the database and the server	A
Access control	Care team + patient's authorisation	A
Row Level Security	204 policies, no sensitive table without a rule	A
Encryption	HTTPS in transit; encryption at rest provided by the host	A
API protection	Token verified, role checked, rate limiting	A
Backups	Backup and restore checked automatically	A
Logging	4 chained audit logs (SHA-256), append-only	A
Session management	Revoked session = access cut immediately	A
Unauthorised access	Administration separated from medical data, exceptional access with dual approval	A
Incident management	Documented response procedure and recovery plan	A
File antivirus scanning	Blocking ready, engine to be configured	B
External security audit	File prepared, audit to be carried out	B
Separate production environments	To be created	B

13 Payments

Category	Monthly price
Patient	USD 1
Doctor	USD 5
Nurse	USD 5
Midwife	USD 5
Paramedic	USD 5
Pharmacy	USD 5
Health facility, laboratory, ambulance service, insurer or mutual	USD 10
Follow-up by a private doctor (paid by the patient to the doctor)	USD 5

Private doctor subscription. The patient pays the doctor directly; Bokono takes no commission. It includes three private ten-minute consultations per week.

Financial function	Status
Subscription and receipt management	A
Separate wallets (Bokono, doctors, each pharmacy)	A
Double-entry ledger, transaction history	A
Manual collections and reconciliation in the console	A
Financial dashboards (console)	A
Makuta mobile money payment	B — awaiting the merchant account
Payouts to doctors and pharmacies	B
Holding funds on behalf of private doctors	D — possible authorisation to be confirmed

Makuta module (administration console). Three separate flows: flow 1 Bokono (ESPAGNORA SARLU), flow 2 providers (doctors, nurses, midwives, paramedics, other professionals), flow 3 facilities (hospitals, clinics, pharmacies, mutuals, insurers, others). Makuta creates the extensions; Bokono builds the dossiers, transmits them and records the returned extension. When a professional or facility signs up, its dossier is created automatically and the relevant documents reach it at the same time as the Bokono verification agent.

Makuta module function	Status
"Makuta administrator" role separate from the general administrator (no access to medical records)	A
Beneficiary dossiers (natural persons and legal entities), one dossier per professional or facility, enforced by the database	A
Identification documents: upload, logged viewing, check or reasoned rejection by a second person, replacement without deletion	A
Dossier created automatically at sign-up; relevant documents reused without copying; Bokono verification then Makuta check	A
Document requirements configurable per category	A ; lists to be obtained from Makuta (D)
Automatic sending of the dossier by email to Makuta's addresses (attachments, retries on failure), addresses confirmed by a second administrator	A ; B until the email service is connected on the server
Request tracking (reference, reply, more information, rejection, failure, resend)	A
Professional's dashboard: dossier, documents, extension, money received, payouts	A

Makuta module function	Status
Makuta portal or API	C — not available from Makuta to date
Received extensions: entered then confirmed by another administrator, never reassigned	A
Flow and extension frozen on each payment; ledger per flow, search, CSV and PDF export	A
Direct payout to each beneficiary's extension	C — behaviour to be checked with the Makuta API
Facility payments (flow 3)	C — not yet in service

14 Geolocation

Function	Status
Geographic reference data (provinces, GRID3 v9.0 health zones, cities, communes, territories)	A
Locating professionals and proximity search	A
Identifying pharmacies and laboratories	A
Patient's position for an emergency (with consent) and nearby responders	A
Real-time ambulance location	C
Geographic alerts	C
Location permission management	A (phone permission, requested when needed)

15 Interoperability

Partner or system	Possibility	Status
Registered facilities, laboratories, pharmacies, insurers	Exchanges built into the platform	A

Partner or system	Possibility	Status
Health information systems (DHIS2, national software)	Sending aggregated indicators	C
External hospital systems	Standardised exchanges	C
Medical reference data	Catalogue of medicines, specialties, training institutions	A
HL7 FHIR standard	Export of readings as FHIR resources (Patient, Device, Observation) by a server function, with no screen or external exchange at this stage	B

16 Regulatory compliance

Bokono is not, to date, licensed or approved by any authority: no such step is presented here as achieved.

Area	Applicable framework	Institutions	Step
Personal data	Digital Code (Ordinance-Law No. 23/010 of 13 March 2023)	Data protection authority provided for by the Code (not yet operational); ARPTC	Legal analysis and required declarations
Health data	Digital Code; medical secrecy	Ministry of Public Health, Hygiene and Social Welfare	Validation of hosting and retention
Telemedicine	Rules governing health professions	Medical council, Ministry of Health	Validation of the conditions for remote practice
Electronic prescriptions	Prescription and dispensing rules	Medical council, pharmacists' council	Choice of a recognised electronic signature provider (D)
Professional liability	Professional ethics	Professional councils	Terms of use, verification of registrations
Medical confidentiality	Professional secrecy	Professional councils	Access rules enforced by the database
Hosting and international transfers	Digital Code	Competent authorities	Analysis of data location
Cybersecurity	Digital Code	ARPTC, competent authorities	External security audit (B)
Digital health	Health informatics roadmap (2022)	ANICNS, Ministry of Health	Presentation and integration study

17 Technical requirements

Requirement	Implementation
Availability	Services hosted by specialised providers; task operations board in the console
Performance	Indexed queries, server functions in the database, compressed images
Scalability	Independent layers; new profiles and modules added without redesign

Requirement	Implementation
Maintainability	Modular code, 124 versioned migrations, nearly 2,000 automated tests on every change
Mobile compatibility	Android smartphone; iOS planned
Unstable connections	Pending messages sent when the network returns; nothing shown as sent before confirmation
Protection against data loss	Backups, tested restore, medical records that cannot be erased
Service continuity	Documented incident recovery plan; emergency prioritised
Logging	Chained audit logs, redacted technical logs
Supervision	Console: security, operations, scheduled tasks, daily integrity checks

18 Limits and risks

Risk	Measure
Legal signature of prescriptions not yet validated	Recognised signature provider to be chosen (D)
Mobile money payment not yet active	Opening of the Makuta merchant account (B)
External security audit not yet carried out	Independent audit before opening to the public (B)
Dependence on providers (hosting, calls, notifications)	Interchangeable interfaces, contracts to be formalised
Limited connectivity in some areas	Delayed sending, lightweight app
Clinical thresholds, vaccination schedule and devices not yet validated	Medical committee (D)
Phone-sensor estimates not clinically validated	Systematic "estimate" label; validation against reference devices (D)
Official emergency numbers and dispatch	Validation with the health authorities (D)
Data protection framework still being set up	Follow-up of the authority provided for by the Digital Code

19 Development outlook

1. **Consolidation**: activation of mobile money payment, push notifications and transcription; separate production environments; external security audit.
2. **Operational deployment**: first professionals, pharmacies, laboratories and patients; training.
3. **Expansion**: provinces, hospital partnerships, iPhone (iOS) app, ambulance location.
4. **Interconnection**: interoperability with authorised systems (DHIS2, HL7 FHIR), analysis tools, geolocated health alerts.

20 Glossary

Term	Definition
RLS (Row Level Security)	Access rules applied row by row by the database
TOTP	6-digit one-time code generated by an authenticator app
Single session	An account can be signed in on only one device at a time
SHA-256	Digital fingerprint that reveals any change to a record
De-identification	Removal of the information that identifies a person
HL7 FHIR	International standard for exchanging health data
DHIS2	Software of the national health information system
Bluetooth Low Energy	Low-power wireless link between the phone and a measuring device

21 Documentary references

- Digital Code, Ordinance-Law No. 23/010 of 13 March 2023 — DLA Piper summary
- National Digital Plan "Horizon 2025" — dig.watch
- Health informatics roadmap (2022) — PATH
- Revised PNDS 2019-2022 — P4H
- WHO, framework for implementing the global strategy on digital health in Africa — WHO AFRO
- HL7 FHIR — hl7.org/fhir
- Bokono terms of use — admin.bokono-rdc.net/terms

22 Conclusion

BOKONO RDC has a complete and tested technical foundation: mobile app, administration console, a database protected by strict access rules and more than 1,900 automated tests. The remaining steps before opening to the public are identified: payment activation, legal signature of prescriptions, external security audit, medical and regulatory validations (thresholds, vaccination schedule, phone-sensor estimates). This sheet will be updated at each milestone. In case of difference, the French version prevails.

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In an emergency, also use the red "Emergency" button in the app: it always works, with no subscription or payment.

BOKONO RDC is a project led by Espagnora, through the company ESPAGNORA SARLU (Kinshasa, Democratic Republic of the Congo).

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