

ABDM Standards & Health Data Interoperability

Pranavita's compliance with Ayushman Bharat Digital Mission, ABHA, PHR, and FHIR R4 standards

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Pranavita AI is designed to align with India's Ayushman Bharat Digital Mission (ABDM) — the Government of India's initiative to develop a digital health ecosystem that supports universal health coverage.

1. ABDM Framework Overview

ABDM Pillar	Description	Pranavita Integration
ABHA Identity	14-digit unique health identifier for every Indian citizen	ABHA creation and linkage within app (Phase 2)
Health Locker	Consent-based storage and sharing of personal health records	PHR app integration; push/pull records with consent (Phase 2/3)
Health Facility Registry (HFR)	Verified registry of hospitals and labs	Lab partners required to be HFR-registered
Healthcare Professionals Registry (HPR)	Verified registry of doctors	All doctors verified against HPR
Health Information Exchange	FHIR-based data exchange	FHIR R4-aligned data architecture
Consent Framework	Patient-controlled, digitally signed consent artefacts	Granular consent system; ABDM consent artefacts on ABHA features

2. ABHA Integration

2.1 What is ABHA?

ABHA (Ayushman Bharat Health Account) is a 14-digit unique health identifier issued by the National Health Authority. It allows citizens to link health records from multiple providers into a single, unified health profile accessible through PHR applications.

2.2 Pranavita's ABHA Integration Roadmap

Feature	Status	Details
ABHA ID creation via Pranavita app	Planned — Phase 2	Users will be able to create or link their ABHA ID using Aadhaar/mobile within the Pranavita app
ABHA ID linkage (existing)	Planned — Phase 2	Users with existing ABHA IDs can link them to Pranavita for consolidated health

Feature	Status	Details
		records
Display ABHA-linked records	Planned — Phase 2	View records from ABDM-connected providers linked to user's ABHA
Push records to ABHA locker	Planned — Phase 3	Lab reports and health records will be shareable to the user's ABDM health locker

ABHA integration is planned for Phase 2 of Pranavita's roadmap. All features will be built to NHA's technical specifications and tested in the ABDM Sandbox before go-live.

2.3 ABHA Data Handling Principles

- Pranavita will not store the user's ABHA number linked to demographic data without explicit consent
- ABHA-linked records are accessible only to the user and providers they explicitly authorise via consent artefacts
- Pranavita will not share ABHA-linked health data with advertisers, insurers, or employers
- Users can de-link their ABHA from Pranavita at any time

3. Personal Health Records (PHR) Framework

NHA PHR Requirement	Pranavita Implementation
User-controlled consent for all data sharing	Granular consent management system; per-purpose, per-provider consent artefacts
No data sharing without valid consent artefact	Enforced at API level — no data flows without a digital consent token
Audit trail of all consent and data access events	Immutable audit log accessible to user on request
Support for consent revocation	Instant consent revocation via Settings → Privacy → ABDM Consents
FHIR R4-compliant data formats	All health records stored and transmitted in FHIR R4 format
Encryption of PHR data	AES-256 at rest; TLS 1.3 in transit
Data localisation (India servers)	All PHR data stored on AWS Mumbai region servers

4. FHIR R4 Interoperability Standards

Pranavita's health data architecture is designed around HL7 FHIR R4 (Fast Healthcare Interoperability Resources, Release 4), as mandated by the ABDM Health Information Exchange and Consent Manager (HIE-CM) framework.

FHIR Resource	Pranavita Use Case	Status
Patient	User health profile, demographics	In design
DiagnosticReport	Lab test results from connected labs	In design
Observation	Individual biomarker values (HbA1c, glucose,	In design

FHIR Resource	Pranavita Use Case	Status
	etc.)	
MedicationRequest	Prescriptions from telemedicine consultations	Phase 2
Condition	Diagnosed conditions in health memory	In design
AllergyIntolerance	Allergy records in health profile	In design
Immunization	Vaccination records	Phase 3
DocumentReference	Hospital discharge summaries, radiology reports	Phase 2
Encounter	Telemedicine consultation records	Phase 2
CarePlan	Doctor-defined care plans from consultations	Phase 3

SMART on FHIR:

Pranavita is designing its provider connectivity layer using SMART on FHIR — the standard for authorised app launch and scoped data access from FHIR-enabled provider systems. This enables OAuth 2.0 + OpenID Connect-based secure authorisation flows with scoped access to only the FHIR resources the patient consents to share.

5. Health Data Management Policy (HDMP) Compliance

HDMP Principle	Pranavita's Implementation
Privacy by Design	Data minimisation, purpose limitation, and consent built into the platform architecture from the ground up
Security by Default	AES-256 encryption, TLS 1.3, RBAC, and audit logging applied to all health data by default
Individual Autonomy	Users control what data is stored, who can access it, for how long, and can revoke all access at any time
Accountability	Immutable audit logs, Grievance Officer, and DPO (when SDF-designated) ensure accountability
Openness & Transparency	This document, the Privacy Policy, and Consent Notices are publicly available in plain language
Data Localisation	All sensitive health data stored in India (AWS Mumbai)
Non-Discrimination	Health data is never used to discriminate against users in pricing, access, or services

6. ABDM Consent Manager Framework

Every data sharing request under ABDM will generate a digitally signed consent artefact containing:

- Patient's ABHA ID
- Requester's identity (Pranavita or the specific doctor/lab)
- Purpose of data access (in plain language)
- Data types requested (specific FHIR resources)
- Time period of access (start date and expiry)
- Digital signature ensuring artefact integrity

Consent Flow Types:

- One-time consent: for a single data access (e.g., doctor viewing lab report during a consultation)
- Time-bound consent: for a defined period (e.g., health monitoring for 3 months)
- Permanent consent (revocable): for ongoing health memory sync — always revocable instantly

Pranavita will never access, retrieve, or share ABDM-linked health data without a valid, user-signed consent artefact. This is enforced at the infrastructure level, not merely by policy.

7. ABDM Sandbox Testing & Certification

Before activating any live ABDM integration, Pranavita will:

1. Complete integration testing in the ABDM Sandbox environment provided by NHA
2. Successfully complete the ABDM Compliance and Certification Assessment for PHR applications
3. Obtain NHA's approval and listing as a certified ABDM-compliant PHR app
4. Undergo annual re-certification to maintain ABDM-compliant status

8. Partner Requirements

Lab Partners on Pranavita are required to:

- Register in the Health Facility Registry (HFR) under ABDM
- Generate FHIR-compliant DiagnosticReport resources for all test results
- Link their facility ID to test results to enable ABDM-standard data provenance

Doctor Partners on Pranavita are required to:

- Maintain an active profile in the Healthcare Professionals Registry (HPR)
- Issue digital prescriptions using ABDM-compliant prescription standards
- Link consultation notes and prescriptions to the patient's ABHA ID (with patient consent)

Contact & Grievance

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For data protection concerns, regulatory queries, or to exercise your rights, contact the Grievance Officer above. Response guaranteed within 48 hours.